USDA United States Department of Agriculture

Natural Resources Conservation Service

Montana Water Supply Outlook Report May 1, 2009

Picture: Black Bear SNOTEL Site - Winter of 1997

Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:

Water Supply Specialist
Federal Building
10 East Babcock, Room 443
Bozeman, MT 59715
or
Phone 406-587-6991

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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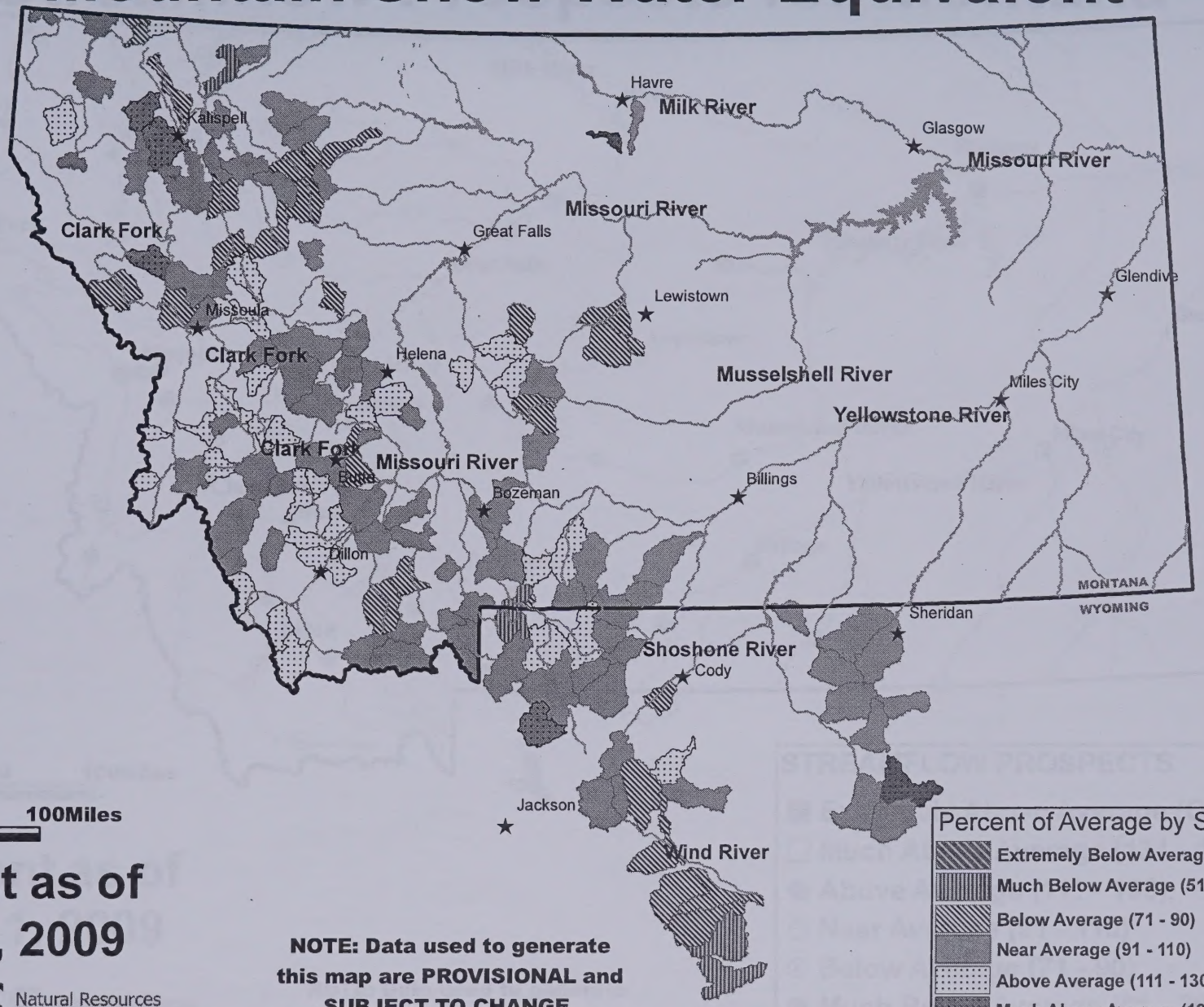
Mountain Snow Water Equivalent



Current as of May 1, 2009

NRCS Natural Resources Conservation Service

http://www.mt.nrcs.usda.gov

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

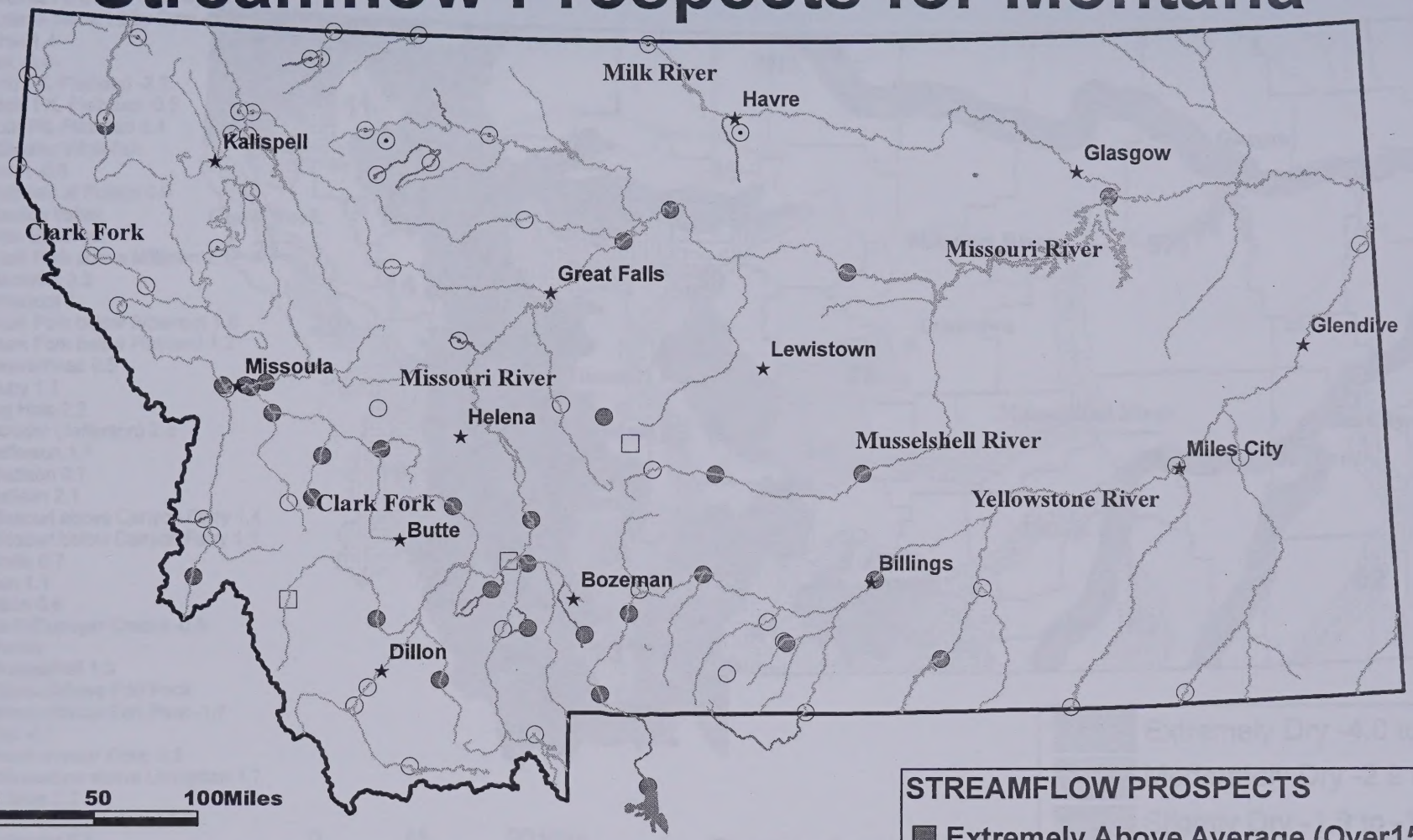
Manufacturing Employment Outlook Report

Private
Business Surveys

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana



Current as of May 1, 2009

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STREAMFLOW PROSPECTS

- Extremely Above Average (Over150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

Surface Water Supply Index (SWSI) Values

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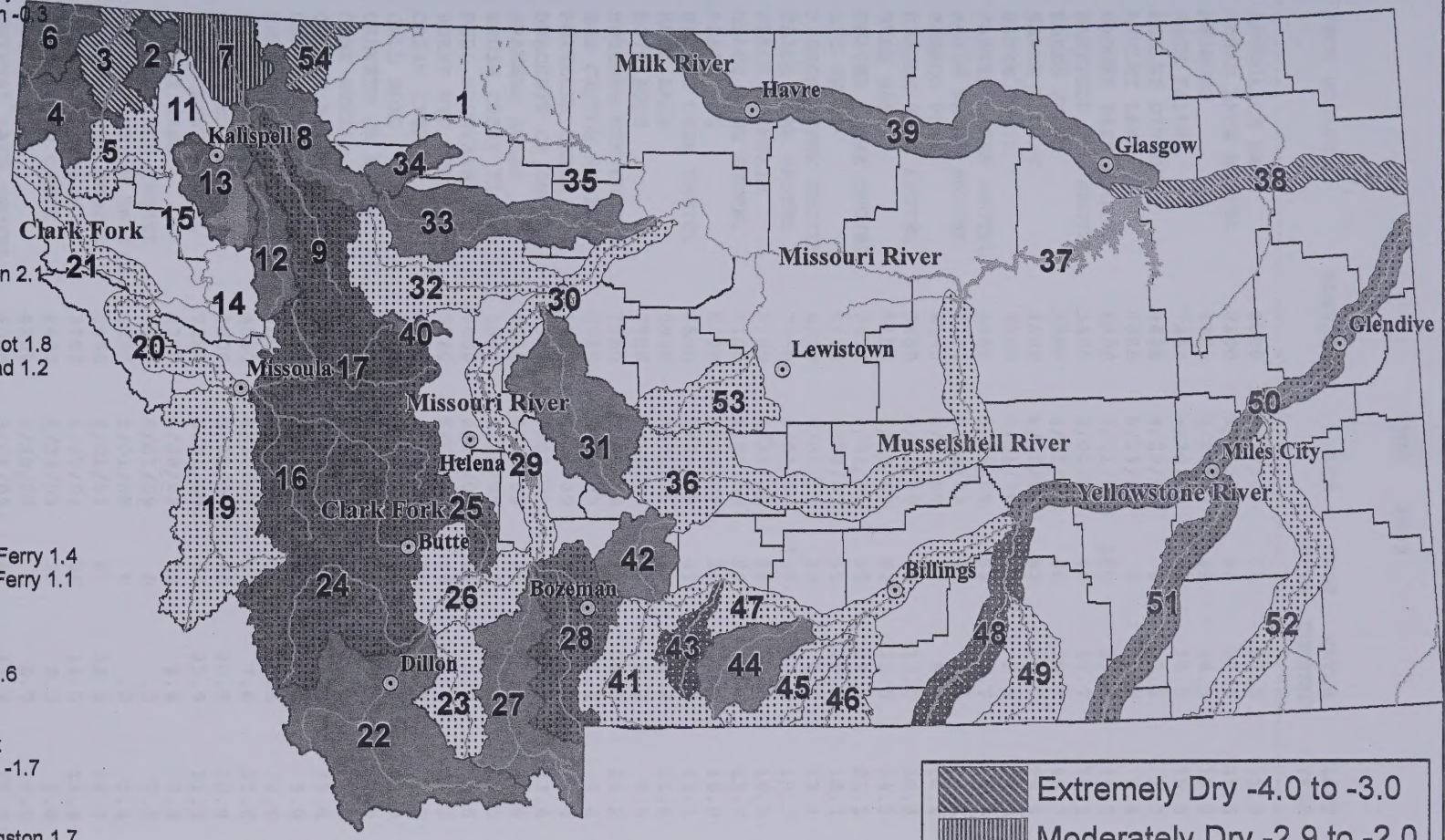
RIVER INDEX & SWSI VALUES
1 Marias above Tiber Reservoir
2 Tobacco -0.9
3 Kootenai Ft. Steele to Libby Dam -1
4 Kootenai below Libby Dam -0.3
5 Fisher 1.4
6 Yaak -0.4
7 North FK. Flathead -2.2
8 Middle FK. Flathead -0.5
9 South FK. Flathead 2.4
11 Stillwater/Whitefish
12 Swan -0.6
13 Flathead at Polson 0.9
14 Mission Valley
15 Little Bitterroot
16 Clark Fork above Milltown 2.1
17 Blackfoot 2.3
19 Bitterroot 1
20 Clark Fork below Bitterroot 1.8
21 Clark Fork below Flathead 1.2
22 Beaverhead 0.5
23 Ruby 1.1
24 Big Hole 2.2
25 Boulder (Jefferson) 2.3
26 Jefferson 1.7
27 Madison 0.7
28 Gallatin 2.1
29 Missouri above Canyon Ferry 1.4
30 Missouri below Canyon Ferry 1.1
31 Smith 0.7
32 Sun 1.1
33 Teton 0.8
34 Birch/Dupuyer Creeks -0.6
35 Marias
36 Musselshell 1.3
37 Missouriabove Fort Peck
38 Missouribelow Fort Peck -1.7
39 Milk -0.1
40 Dearbornnear Craig 0.2
41 Yellowstone above Livingston 1.7
42 Shields 0.2
43 Boulder(Yellowstone) 3.3
44 Stillwater 0.7
45 Rock/Red Lodge Creeks 1.5
46 Clarks Fork 1.4
47 Yellowstone above Bighorn 1.6
48 Bighorn below Bighorn Lake 2.9
49 Little Bighorn 1.2
50 Yellowstone below Bighorn 2.2
51 Tongue 2.6
52 Powder 1.9
53 Upper Judith River 1.8
54 Saint Mary River -1.1



0 45 90 Miles

Current as of May 1, 2009

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Sightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

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SNOTEL AND SNOW COURSE DATA SUMMARY

MAY 2009

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABUNDANCE LAKE	8800	4/27/09	71	27.2	21.2	22.9
ALBRO LAKE SNOTEL	8300	5/01/09	80	27.2	20.5	23.3
AMBROSE	6480	4/24/09	39	14.3	13.0	11.1
ARCH FALLS	7350	4/30/09	48	14.5	15.9	13.1
ASHLEY DIVIDE	4820	4/29/09	3	1.1	3.9	1.1
ASHLEY LAKE	4000	4/29/09	0	.0	2.6	1.2
BADGER PASS SNOTEL	6900	5/01/09	100	32.8	44.2	36.2
BANFIELD MTN SNOTEL	5600	5/01/09	46	17.7	20.1	17.1
BAREE CREEK	5500	5/01/09	80	35.2	45.7	40.3
BAREE MIDWAY	4600	5/01/09	69	29.7	29.9	27.4
BAREE TRAIL	3800	5/01/09	9	2.8	20.2	1.3
BARKER LAKES SNOTEL	8250	5/01/09	82	22.7	16.5	16.2
BASIN CREEK SNOTEL	7180	5/01/09	43	9.6	8.1	10.0
BASSOO PEAK	5150	4/29/09	16	5.6	14.4	3.2
BEAGLE SPGS SNOTEL	8850	5/01/09	45	12.7	10.4	9.3
BEAR BASIN	8150	4/30/09	62	25.5	24.3	21.2
BEAVER CREEK SNOTEL	7850	5/01/09	65	23.3	21.5	18.8
BIG SNOWY	7150	4/28/09	59	18.2	18.1	22.5
BISSON CREEK SNOTEL	4920	5/01/09	19	6.6	12.4	3.6
BLACK BEAR SNOTEL	7950	5/01/09	103	40.2	49.3	39.9
BLACK MOUNTAIN	7750	4/28/09	58	20.3	16.2	16.9
BLACK PINE SNOTEL	7100	5/01/09	39	14.5	12.6	11.0
BLACKTAIL	5650	4/29/09	33	11.3	15.0	9.7
BLOODY DICK SNOTEL	7550	5/01/09	47	15.4	12.1	10.9
BLUE LAKE	5900	5/01/09	89	29.2	21.0	22.4
BOTS SOTS	7750	4/30/09	20	6.2	5.5	7.4
BOULDER MTN SNOTEL	7950	5/01/09	79	24.9	23.2	21.6
BOX CANYON SNOTEL	6700	5/01/09	34	11.1	9.4	6.0
BOXELDER CREEK	5100	4/27/09	4	.8	4.4	2.6
BRACKETT CR SNOTEL	7320	5/01/09	65	25.5	23.8	21.5
BRANHAM LAKES	8850	4/28/09	88	34.9	34.0	32.2
BRUSH CREEK TIMBER	5000	4/25/09	9	3.6	9.5	3.6
BULL MOUNTAIN	6600	4/30/09	21	5.8	3.8	2.6
BURNT MTN SNOTEL	5880	5/01/09	19	6.4	.0	1.0
CABIN CREEK	5200	4/30/09	26	2.2	2.5	1.4
CALL ROAD	8050	4/30/09	50	15.3	12.8	12.5
CALVERT CR SNOTEL	6430	5/01/09	16	5.9	7.5	2.4
CAMP SENIA	7890	4/30/09	46	15.1	7.6	7.6
CARROT BASIN SNOTEL	9000	5/01/09	95	33.6	33.4	31.0
CARTER CREEK	7400	4/30/09	31	9.0	8.0	6.0
CHESSMAN RESERVOIR	6200	4/24/09	13	3.5	3.6	1.7
CHICKEN CREEK	4060	4/30/09	17	7.4	22.6	5.4
CLOVER MDW SNOTEL	8800	5/01/09	60	20.5	20.9	19.4
COLE CREEK SNOTEL	7850	5/01/09	74	22.9	11.2	19.7
COLLEY CREEK	6300	4/28/09	13	4.9	7.2	4.3
COMBINATION SNOTEL	5600	5/01/09	0	.0	3.5	1.2
COPPER BOTTOM SNOTEL	5200	5/01/09	0	.0	3.1	4.5
COPPER CAMP SNOTEL	6950	5/01/09	87	39.3	56.9	--
COPPER MOUNTAIN	7700	4/27/09	36	11.0	11.8	10.0
COTTONWOOD CREEK	6400	4/28/09	26	8.2	8.0	7.3
COYOTE HILL	4200	4/30/09	8	2.7	6.6	2.6
CRYSTAL LAKE SNOTEL	6050	5/01/09	45	13.9	12.5	9.4
DAD CREEK LAKE	8400	5/01/09	68	22.5	16.0	16.8
DAISY PEAK SNOTEL	7600	5/01/09	52	13.5	8.9	11.0
DALY CREEK SNOTEL	5780	5/01/09	25	8.6	11.1	5.3
DARKHORSE LK. SNOTEL	8700	5/01/09	106	37.7	38.9	35.4
DAVIS CREEK	5400	4/24/09	60	22.7	30.4	20.2
DEADMAN CR SNOTEL	6450	5/01/09	28	9.5	10.9	5.9
DISCOVERY BASIN	7050	4/30/09	43	13.6	11.0	9.4
DIVIDE SNOTEL	7800	5/01/09	44	13.0	10.7	12.0
DIX HILL	6400	4/26/09	17	5.9	11.1	3.8
DUPUYER CREEK SNOTEL	5750	5/01/09	61	10.3	7.3	7.9
EAST FORK R.S.	5400	4/28/09	0	.0	2.5	.7
ELK HORN SPRINGS	7800	4/27/09	22	7.5	10.9	7.5
ELK PEAK	8000	4/28/09	54	17.7	13.9	17.8
EMERY CREEK SNOTEL	4350	5/01/09	20	7.6	15.6	7.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
FATTY CREEK	5500	4/25/09	53	21.2	29.9	23.4
FISH CREEK	8000	4/30/09	48	15.2	8.8	11.5
FISHER CREEK SNOTEL	9100	5/01/09	112	39.9	44.7	37.8
FIVE-BULL	5700	4/25/09	10	2.9	4.6	2.0
FLATTOP MTN SNOTEL	6300	5/01/09	98	35.3	51.7	46.7
FLEECER RIDGE	7500	4/30/09	35	10.8	10.0	8.7
FOOLHEN	8280	4/27/09	46	16.3	16.6	17.7
FOUR MILE	6900	4/27/09	28	8.7	9.2	6.2
FREIGHT CREEK	6000	4/28/09	41	8.4	12.8	12.0
FROHNER MDWS SNOTEL	6480	5/01/09	40	10.2	7.8	6.5
GARVER CREEK SNOTEL	4250	5/01/09	26	8.9	11.6	3.2
GOLD STONE	8100	5/01/09	58	20.0	18.8	17.7
GRASSHOPPER	7000	4/28/09	18	5.1	5.4	4.0
GRAVE CRK SNOTEL	4300	5/01/09	19	8.0	18.0	7.0
GRIFFIN CR DIVIDE	5150	4/29/09	16	6.4	12.6	4.9
GUNSIGHT LAKE	6300	5/01/09	93	33.1	--	--
HAND CREEK SNOTEL	5030	5/01/09	24	10.0	13.9	6.8
HAWKINS LAKE SNOTEL	6450	5/01/09	79	27.3	32.8	28.9
HEBGEN DAM	6550	4/27/09	14	2.6	10.6	6.6
HELL ROARING DIVIDE	5770	4/30/09	67	27.9	36.8	29.0
HERRIG JUNCTION	4850	4/30/09	45	17.6	31.9	22.9
HOLBROOK	4530	4/29/09	2	.6	--	1.2
HOODOO BASIN SNOTEL	6050	5/01/09	101	40.5	54.8	45.7
ICEBERG LAKE NO 3	5600	5/05/09	63	27.6	32.1	27.7
INDEPENDENCE	7850	4/24/09	52	16.0	19.1	16.1
INTERGAARD	6450	4/26/09	24	6.9	7.9	6.1
JAHNKE LAKE TRAIL	7200	5/01/09	35	11.0	11.4	9.4
JOHNSON PARK	6450	5/01/09	17	4.9	1.6	1.4
JOSEPHINE LOWER NO 9	4900	5/04/09	27	9.0	19.8	13.0
KRAFT CREEK SNOTEL	4750	5/01/09	4	2.2	9.2	5.2
LAKE CREEK	6100	4/30/09	14	4.4	7.1	2.7
LAKEVIEW CANYON	6930	4/30/09	40	11.8	11.8	9.7
LAKEVIEW RDG. SNOTEL	7400	5/01/09	40	12.9	12.8	8.7
LEMHI RIDGE SNOTEL	8100	5/01/09	52	16.4	13.0	10.9
LICK CREEK SNOTEL	6860	5/01/09	43	13.8	13.6	10.1
LITTLE PARK	7400	4/27/09	46	17.6	19.1	15.9
LOGAN CREEK	4300	4/29/09	17	5.9	10.0	1.7
LONE MOUNTAIN SNOTEL	8880	5/01/09	59	23.0	25.6	20.8
LOWER TWIN SNOTEL	7900	5/01/09	78	23.8	20.7	21.3
LUBRECHT SNOTEL	4680	5/01/09	0	.0	.0	.5
LUBRECHT FOREST NO 3	5450	4/30/09	6	1.8	4.4	1.7
LUBRECHT FOREST NO 4	4650	4/30/09	0	.0	.0	.1
LUBRECHT FOREST NO 6	4040	4/30/09	0	.0	.0	.0
LUBRECHT HYDROPLOT	4200	4/30/09	0	.0	.0	.1
MADISON PLT SNOTEL	7750	5/01/09	75	25.6	32.8	24.2
MANY GLACIER SNOTEL	4900	5/01/09	22	5.2	10.4	5.7
MARIAS PASS	5250	4/25/09	37	10.8	19.0	12.5
MIDDLE MILL CREEK	7850	4/28/09	48	18.0	18.4	15.1
MILL CREEK	7500	4/28/09	45	17.1	15.8	10.3
MINERAL CREEK	4000	4/26/09	3	.5	18.7	9.6
MONUMENT PK SNOTEL	8850	5/01/09	76	26.8	25.8	23.2
MOSS PEAK SNOTEL	6780	5/01/09	88	36.4	37.9	41.8
MOULTON RESERVOIR	6850	4/30/09	18	6.2	--	3.5
MOUNT ALLEN NO 7	5700	5/04/09	71	31.7	40.9	41.7
MT LOCKHART SNOTEL	6400	5/01/09	78	21.3	24.2	21.2
MUDD LAKE	7650	4/27/09	52	20.7	22.2	18.1
MULE CREEK SNOTEL	8300	5/01/09	71	20.7	18.1	17.0
N.E. ENTRANCE SNOTEL	7350	5/01/09	18	5.8	9.1	7.1
NEVADA RIDGE SNOTEL	7020	5/01/09	53	16.7	16.5	14.4
NEW WORLD	6900	4/30/09	48	16.1	16.9	--
NEZ PERCE CMP SNOTEL	5650	5/01/09	42	14.6	17.4	10.8
NEZ PERCE CREEK	6600	4/27/09	6	1.9	6.1	2.7
NEZ PERCE PASS	6570	4/30/09	---	17.9E	19.1	14.2
N.F. ELK CR SNOTEL	6250	5/01/09	38	12.8	11.1	8.0
NF JOCKO SNOTEL	6330	5/01/09	91	42.6	48.7	44.4
NOISY BASIN SNOTEL	6040	5/01/09	104	42.6	45.8	43.8
NOTCH	8500	4/30/09	72	23.9	21.6	19.4
OPHIR PARK	7150	4/26/09	45	15.8	16.4	16.0
PETERSON MDW SNOTEL	7200	5/01/09	53	16.0	11.4	11.0
PICKET PIN LOWER	6200	4/28/09	24	6.5	.0	--
PICKET PIN MIDDLE	7250	4/28/09	36	11.5	9.2	--
PICKET PIN UPPER	8100	4/28/09	79	27.0	22.5	--

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
PICKFOOT CRK SNOTEL	6650	5/01/09	40	12.2	9.9	6.4
PIEGAN PASS NO 6	5500	5/04/09	65	28.3	38.4	35.5
PIKE CREEK SNOTEL	5930	5/01/09	92	25.1	28.9	25.9
PIPESTONE PASS	7200	4/27/09	14	4.3	6.2	4.8
PLACER BASIN SNOTEL	8830	5/01/09	75	25.5	21.1	19.8
POORMAN CR SNOTEL	5100	5/01/09	67	30.0	48.4	30.0
PORCUPINE SNOTEL	6500	5/01/09	11	4.1	5.9	3.6
POTOMAGETON PARK	7150	4/30/09	31	12.0	13.2	8.3
PTARMIGAN	5800	5/05/09	74	33.7	34.7	33.5
RED MOUNTAIN	6000	4/28/09	53	19.6	20.7	16.4
REVAIS CREEK	4800	4/29/09	2	.2	.0	.5
ROCK CREEK	5600	4/28/09	15	4.2	10.2	4.4
ROCK CREEK MEADOW	8160	4/28/09	82	28.5	26.0	22.7
ROCKER PEAK SNOTEL	8000	5/01/09	68	20.4	14.2	16.6
ROCKY BOY SNOTEL	4700	5/01/09	8	1.2	2.2	1.2
SACAJAWEA SNOTEL	6550	5/01/09	41	13.9	15.6	12.8
SADDLE MTN SNOTEL	7900	5/01/09	80	26.9	32.0	26.5
S.F. SHIELDS SNOTEL	8100	5/01/09	65	21.4	18.1	19.6
SHORT CREEK SNOTEL	7000	5/01/09	19	6.3	6.8	4.7
SHOWER FALLS SNOTEL	8100	5/01/09	93	32.6	31.3	26.9
SKALKAHO SNOTEL	7260	5/01/09	62	22.5	28.0	25.4
SLAG-A-MELT LAKE	8750	5/01/09	77	31.6	27.3	26.7
SLEEPING WOMAN SNTL	6150	5/01/09	48	18.0	20.9	13.4
SLIDE ROCK MOUNTAIN	7100	4/26/09	46	17.3	17.3	15.7
SMUGGLER MINE	6960	4/28/09	23	7.5	10.5	7.6
SPOTTED BEAR MTN.	7000	4/25/09	25	9.4	15.7	7.6
SPUR PARK SNOTEL	8100	5/01/09	82	26.9	23.8	23.2
STAHL PEAK SNOTEL	6030	5/01/09	81	32.6	43.3	37.1
STEMPLE PASS	6600	4/27/09	35	9.1	12.0	9.3
STORM LAKE	7780	4/30/09	63	20.4	15.1	14.3
STRYKER BASIN	6180	4/30/09	65	27.1	40.1	32.6
STUART MOUNTAIN SNTL	7400	5/01/09	91	37.7	34.9	32.3
TAYLOR ROAD	4080	4/27/09	0	.0	.0	.3
TEN MILE LOWER	6600	4/24/09	25	7.1	7.6	4.5
TEN MILE MIDDLE	6800	4/24/09	37	11.6	10.6	11.2
TEPEE CREEK SNOTEL	8000	5/01/09	50	15.6	17.4	13.6
TIMBERLINE CREEK	8850	4/30/09	57	20.0	16.9	17.3
TIZER BASIN SNOTEL	6840	5/01/09	41	11.5	8.3	9.5
TRAIL CREEK	7090	5/01/09	32	11.0	9.2	6.1
TRINKUS LAKE	6100	4/25/09	87	36.5	50.2	40.8
TRUMAN CREEK	4060	4/29/09	1	.2	2.4	.1
TV MOUNTAIN	6800	4/24/09	48	18.6	21.1	17.1
TWELVEMILE SNOTEL	5600	5/01/09	27	12.0	23.1	8.8
TWENTY-ONE MILE	7150	4/27/09	34	13.4	19.3	13.4
TWIN CREEKS	3580	5/01/09	3	1.0	12.5	1.7
TWIN LAKES SNOTEL	6400	5/01/09	86	39.9	52.1	38.5
UPPER HOLLAND LAKE	6200	4/25/09	77	32.9	31.6	33.5
WALDRON SNOTEL	5600	5/01/09	45	10.3	10.3	6.4
WARM SPRINGS SNOTEL	7800	5/01/09	87	31.7	23.2	23.7
WEASEL DIVIDE	5450	4/27/09	63	26.6	37.4	32.7
WEST YELL'ST SNOTEL	6700	5/01/09	18	6.7	11.0	6.1
WHISKEY CREEK SNOTEL	6800	5/01/09	54	18.7	20.7	15.2
WHITE MILL SNOTEL	8700	5/01/09	78	27.3	30.9	26.4
WHITE PINE RIDGE	8850	5/01/09	33	9.9	5.7	5.6
WILLOW CREEK	6500	4/27/09	27	7.4	5.3	4.0
WOOD CREEK SNOTEL	5960	5/01/09	53	12.2	10.2	8.5
WRONG CREEK	5700	4/28/09	20	5.6	11.7	7.7
WRONG RIDGE	6800	5/01/09	---	17.4E	21.4	17.0

Montana Water Supply Outlook Report as of May 1, 2009

Snowfall the last part of April helped the north central mountains make substantial snow water increase. Late April snow water percentage increase in the Missouri Mainstem was 22 percent and the Missouri Headwaters percentage increase was 15 percent. West of the Divide percentage increases ranged from 4 to 13 percent. Mountain snowpack state-wide was generally near to above average and below last year. April mountain precipitation for the Columbia River Basin was 76 percent of average; Missouri River Basin was 118 percent of average; and Yellowstone River Basin was 112 percent of average.

Snowpack

State-wide mountain snow water contents were 110 percent of average and 89 percent of those on May first last year. Snowpack in the Columbia River Basin was 102 percent of average and 76 percent of last year, the Missouri River Basin was 116 percent of average and 100 percent of last year and the Yellowstone River Basin was 110 percent of average and 104 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR	APRIL % CHANGE
COLUMBIA	102	76	+4
KOOTENAI, MONTANA	97	72	0
KOOTENAI, CANADA	85	83	-15
FLATHEAD, MONTANA	94	70	+1
FLATHEAD, CANADA	81	62	-4
UPPER CLARK FORK	117	99	+9
BITTERROOT	109	77	+4
LOWER CLARK FORK	103	69	+8
MISSOURI	116	100	+16
MISSOURI HEADWATERS	118	102	+17
JEFFERSON	119	108	+16
MADISON	113	92	+17
GALLATIN	116	98	+14
MISSOURI MAINSTEM	113	97	+13
HEADWATERS MAINSTEM	121	111	+13
SMITH-JUDITH-MUSSELSHELL	117	106	+12
SUN-TETON-MARIAS	104	86	+11
MILK (Bearpaw Mtns)	49	30	---
ST. MARY	80	69	+7
ST. MARY & MILK	80	68	0
YELLOWSTONE	110	104	+8
UPPER YELLOWSTONE	118	107	+12
LOWER YELLOWSTONE	102	101	+6
STATE-WIDE	110	89	+10

Precipitation

April, mountain and valley, precipitation across the state was 105 percent of average and 142 percent of last year, while the water year precipitation was 103 percent of average and 104 percent of last year. West of the Divide, April mountain and valley precipitation was 74 percent of average and 91 percent of last year and the water year precipitation was 96 percent of average and 93 percent of last year. East of the Divide, April mountain and valley precipitation was 126 percent of average and 165 percent of last year and the water year precipitation was 108 percent of average and 110 percent of last year.

RIVER BASIN	APRIL % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	74	96
KOOTENAI	74	86
FLATHEAD	74	89
UPPER CLARK FORK	88	110
BITTERROOT	55	100
LOWER CLARK FORK	61	93
MISSOURI	126	108
JEFFERSON	119	112
MADISON	130	105
GALLATIN	114	109
MISSOURI MAINSTEM	127	115
SMITH-JUDITH-MUSSELSHELL	127	115
SUN-TETON-MARIAS	137	97
MILK	139	118
ST. MARY	77	77
YELLOWSTONE	114	109
UPPER YELLOWSTONE	117	108
LOWER YELLOWSTONE	105	122
STATE-WIDE	105	103

Reservoirs

Major reservoir storage state wide was 94 percent of average and 121 percent of last year. Reservoir storage west of the Divide was 141 percent of average and 113 percent of last year. East of the Divide, reservoir storages were 81 percent of average and 124 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	141	113
KOOTENAI	182	110
FLATHEAD	117	118
UPPER CLARK FORK	113	121
BITTERROOT	136	153
LOWER CLARK FORK	116	101
MISSOURI	80	125
JEFFERSON	96	129
MADISON	107	100
GALLATIN	123	105
MISSOURI MAINSTEM	77	124
SMITH-JUDITH-MUSSELSHELL	92	201
SUN-TETON-MARIAS	106	130
MILK	107	230
ST. MARY	128	528
YELLOWSTONE	113	114
UPPER YELLOWSTONE	95	108
LOWER YELLOWSTONE	114	114
STATE-WIDE	94	121

Streamflow

Seasonal Streamflow Forecasts

State-wide, streamflows are forecast to average 92 and 105 percent. West of the Divide, streamflows are forecast to average 94 and 103 percent. East of the Divide, streamflows are forecast to average 92 and 107 percent of average.

Below are River Basin streamflow forecast summaries for the period May 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	May-July THIS YEAR % OF AVERAGE	May-July LAST YEAR % OF AVERAGE
COLUMBIA	94 to 103	107 to 116
KOOTENAI	85 to 93	115 to 126
FLATHEAD	88 to 96	103 to 111
UPPER CLARK FORK	104 to 117	96 to 109
BITTERROOT	97 to 106	108 to 117
LOWER CLARK FORK	93 to 98	124 to 129
MISSOURI	91 to 107	81 to 100
JEFFERSON	99 to 117	77 to 101
MADISON	93 to 100	112 to 119
GALLATIN	108 to 115	103 to 111
MISSOURI MAINSTEM	96 to 109	98 to 113
SMITH-JUDITH-MUSSELSHELL	96 to 118	51 to 70
SUN-TETON-MARIAS	74 to 91	91 to 111
MILK	70 to 87	59 to 83
ST. MARY	82 to 89	100 to 107
YELLOWSTONE	95 to 107	92 to 104
UPPER YELLOWSTONE	99 to 108	94 to 104
LOWER YELLOWSTONE	90 to 105	88 to 103
STATE-WIDE	93 to 105	93 to 107

NOTE: The MAY-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on May 1, NOT of what actually occurred.

Snowmelt Peak Streamflow Forecasts

Snowmelt Peak Streamflow Forecasts based on May 5 data.

WATERSHED	PEAK FLOW DATES
COLUMBIA RIVER BASIN	
Bitterroot River near Darby	May 24 to May 30
Bitterroot River at Missoula	May 25 to May 31
Blackfoot River near Bonner	May 25 to May 31
Clark Fork River above Missoula	May 27 to June 2
Clark Fork River at St. Regis	May 26 to June 1
Clark Fork River below Missoula	May 28 to June 3
Como Reservoir Inflow	May 25 to May 31
Fisher River near Libby	May 16 to May 22
Lower Willow Creek Reservoir Inflow	May 23 to May 29
Little Blackfoot River near Garrison	May 20 to May 26
Middle Fork Flathead River near West Glacier	May 21 to May 27
Middle Fork Rock Creek near Phillipsburg	May 27 to June 2
Nevada Creek near Helmville	May 21 to May 27
North Fork Flathead River near Columbia Falls	May 22 to May 28
Prospect Creek at Thompson Falls	May 17 to May 23
South Fork Flathead River near Hungry Horse	May 24 to May 30
South Fork Jocko River Near Arlee	May 17 to May 23
Swan River near Big Fork	May 26 to June 1
Thompson River near Thompson Falls	May 17 to May 23
Tobacco River near Eureka	May 22 to May 28
Yaak River near Troy	May 15 to May 21
MISSOURI RIVER BASIN	
Badger Creek near Browning	May 24 to May 30
Big Hole River at Wisdom	May 30 to June 5
Big Hole River near Melrose	May 30 to June 5
Boulder River near Boulder	May 19 to May 25
Clark Canyon Reservoir Inflow	June 5 to June 11
Cut Bank Creek near Browning	May 20 to May 26
Dearborn River near Craig	May 16 to May 22
Gallatin River near Gateway	June 4 to June 10
Gallatin River near Logan	June 5 to June 11
Gibson Reservoir Inflow	May 28 to June 3
Hebgen Reservoir Inflow	May 22 to May 28
Jefferson River near Three Forks	June 2 to June 8
Middle Creek Reservoir Inflow	June 5 to June 11
Madison River near West Yellowstone	May 19 to May 25
Marias River near Shelby	May 23 to May 29
Missouri River at Toston	June 4 to June 10
Musselshell River near Harlowton	May 22 to May 28
North Fork Musselshell near Delpine	May 22 to May 28
Ruby Reservoir Inflow	May 27 to June 2
Sheep Creek near White Sulphur Springs	May 20 to May 26
Smith River below Eagle Creek near Fort Logan	May 26 to June 1
South Fork Musselshell River above Martinsdale	May 22 to May 28
Swift Reservoir Inflow	May 24 to May 30
Two Medicine River near Browning	May 22 to May 28
Willow Creek near Harrison	May 29 to June 4
SASKATCHEWAN RIVER BASIN	
Lake Sherburne Inflow	May 21 to May 26
St. Mary River at International Boundary	May 21 to May 26
YELLOWSTONE RIVER BASIN	
Big Goose Creek near Sheridan Wyoming	May 26 to June 1
Boulder River near Big Timber	June 8 to June 14
Clarks Fork River near Belfry	June 4 to June 10

Cooney Reservoir Inflow	May 25 to May 31
Little Bighorn near Hardin	May 24 to May 30
Little Goose Creek near Big Horn Wyoming	May 23 to May 29
Mystic Reservoir Inflow	June 9 to June 15
Powder River near Moorehead	May 26 to June 1
Shields River near Livingston	May 26 to June 1
Stillwater River near Absarokee	June 9 to June 15
Tongue River near Dayton Wyoming	May 23 to May 29
Tongue River Reservoir Inflow	May 28 to June 3
Yellowstone River at Billings	June 2 to June 8
Yellowstone River at Corwin Springs	June 1 to June 7
Yellowstone River at Lake Outlet	June 24 to June 30
Yellowstone River at Livingston	June 1 to June 7

Snowmelt peak volume forecasts are computed using May 1 streamflow forecasts.

	PEAK RANGE	PEAK RANGE	AVERAGE
COLUMBIA RIVER			
Bitterroot near Darby	4,500 to 6,800	83 to 125	5,454
Blackfoot near Bonner	7,600 to 12,000	89 to 141	8,512
Clark Fork ab Missoula	13,500 to 20,000	92 to 136	14,698
Clark Fork blw Missoula	24,000 to 36,000	84 to 126	28,482
Clark Fork at St. Regis	29,000 to 46,000	81 to 128	35,987
Como Reservoir Inflow	940 to 1,540	86 to 140	1,099
Fisher Creek nr Libby	2,000 to 3,500	86 to 150	2,334
Little Blackfoot near Garrison	900 to 1,400	81 to 126	1,115
Lower Willow Cr. Res. Inflow	190 to 300	89 to 140	214
Middle Fork Flathead nr West Glacier	13,500 to 20,000	71 to 105	19,126
Middle Fork Rock Creek near Philipsburg	680 to 1,080	83 to 132	821
Nevada Creek nr Helmville	200 to 360	66 to 120	301
North Fork Flathead near Columbia Falls	12,000 to 21,000	61 to 106	19,788
Prospect Creek at Thompson Falls	1,000 to 1,500	82 to 123	1,219
Swan River at Big Fork	3,040 to 5,030	62 to 102	4,929
Thompson River near Thompson Falls	1,065 to 2,050	52 to 100	2,047
Tobacco R. near Eureka	900 to 1,350	65 to 97	1,388
Yaak River near Troy	3,400 to 6,400	58 to 109	5,859
MISSOURI RIVER			
Badger Cr. nr Browning	750 to 1,500	44 to 89	1,691
Beaver Ck. Res Inflow	40 to 130	28 to 90	145
Big Hole near Melrose	6,800 to 10,800	95 to 151	7,139
Big Hole at Wisdom	2,000 to 2,900	128 to 185	1,566
Boulder R. near Boulder	1,020 to 1,440	86 to 122	1,183
Cut Bank near Browning	680 to 1,040	79 to 121	857
Clark Canyon Res Inflow	700 to 1,650	59 to 139	1,191
Dearborn R. near Craig	900 to 1,600	53 to 94	1,697
Gallatin near Gateway	4,800 to 6,700	92 to 128	5,232
Gallatin near Logan	5,000 to 7,400	91 to 135	5,468
Gibson Reservoir Inflow	5,200 to 8,200	68 to 107	7,697
Hebgen Reservoir Inflow	2,900 to 4,400	76 to 115	3,832
Jefferson nr Three Forks	7,600 to 11,200	79 to 116	9,626
Marias near Shelby	2,800 to 5,600	40 to 80	6,980
Middle Creek Res Inflow	210 to 340	80 to 130	262
Missouri at Toston	17,000 to 28,000	93 to 154	18,209
Musselshell at Harlowton	1,000 to 1,700	77 to 131	1,293
N. Fk. Musselshell near Delpine	30 to 70	61 to 143	49
Ruby Reservoir Inflow	850 to 1,400	81 to 133	1,055
Sheep Creek near White			

Sulphur Springs	165 to	270	87 to 142	190
S. Fk. Musselshell above Martinsdale	550 to	1,250	49 to 110	1,133
Smith River blw Eagle Ck	1,600 to	2,300	-- to --	---
Swift Reservoir Inflow	500 to	1,000	43 to 86	1,162
Two Medicine nr Browning	1,650 to	2,650	43 to 69	3,838
Willow Creek near Harrison	190 to	340	88 to 158	215
SASKATCHEWAN RIVER				
Lake Sherburne Inflow ...	850 to	1,500	50 to 89	1,694
St. Mary at US Border ...	3,500 to	5,500	84 to 131	4,188
YELLOWSTONE RIVER				
Boulder near Big Timber .	4,100 to	6,400	81 to 127	5,051
Clarks Fork near Belfry .	6,200 to	9,200	82 to 122	7,554
Cooney Reservoir Inflow ..	300 to	1,100	36 to 132	831
L. Bighorn near Hardin ..	1,050 to	1,800	55 to 95	1,895
L. Goose nr Big Horn WY .	230 to	520	68 to 154	338
Mystic Lake Inflow	660 to	1,100	70 to 116	948
Powder R. at Moorehead ..	2,000 to	6,000	46 to 137	4,374
Shields R. nr Livingston	1,150 to	1,900	59 to 98	1,940
Stillwater nr Absarokee .	4,500 to	7,400	73 to 121	6,129
Tongue River near Dayton	880 to	1,640	87 to 163	1,006
Tongue River Res Inflow .	2,200 to	4,400	69 to 138	3,199
Yellowstone at Billings	36,000 to	52,000	87 to 125	41,617
Yellowstone Lake outlet .	5,100 to	7,400	93 to 135	5,487
Yellowstone at Corwin Springs	16,000 to	23,000	91 to 131	17,570
Yellowstone at Livingston	18,000 to	28,000	88 to 137	20,364

Provisional data and are subject to revision. Snowmelt forecasts will be updated weekly until snowmelt peak flows actually occur.

NOTE: The low number in the flow range represents the maximum daily flow that would be expected to occur with little rainfall during the peak snowmelt period. The high number in the flow range could be expected with moderate amounts of rain about the same time as maximum snowmelt runoff is occurring.

Surface Water Supply Index

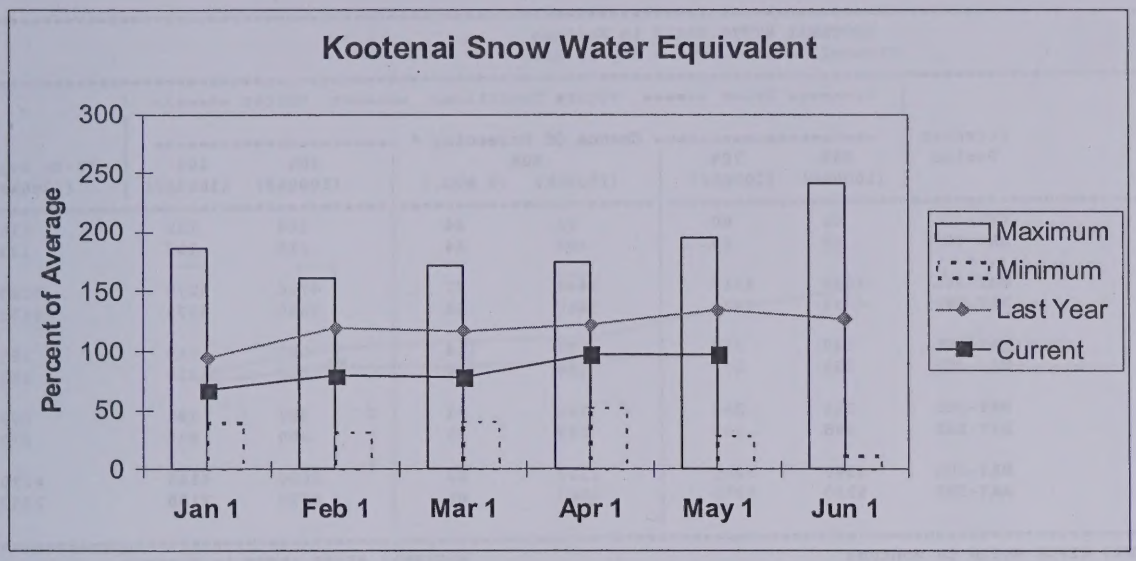
The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

This Year SWSI	Last Year SWSI	Basin
-0.9	+1.6	Tobacco River
-1.0	+0.6	Kootenai Ft. Steele to Libby Dam
-0.3	+1.7	Kootenai River below Libby Dam
+1.4	+2.2	Fisher River
-0.4	+1.0	Yaak River
-2.2	+0.4	North Fork Flathead River
-0.5	+0.1	Middle FORK Flathead River
+2.4	-0.9	South Fork Flathead River
+0.1	0.0	Flathead River at Columbia Falls
-0.6	-1.1	Swan River
+0.9	+1.0	Flathead River at Polson
----	-2.5	Mission Valley
----	+3.2	Little Bitterroot River
+2.1	+1.6	Clark Fork River above Milltown
+2.3	0.0	Blackfoot River
+1.0	+1.8	Bitterroot River
+1.8	+1.7	Clark Fork River below Bitterroot River
+1.2	+1.2	Clark Fork River below Flathead River
+0.5	-1.0	Beaverhead River
+1.1	+0.7	Ruby River
+2.2	+0.8	Big Hole River
+2.3	-0.1	Boulder River (Jefferson)
+1.7	+0.7	Jefferson River
+0.7	+2.4	Madison River
+2.1	+1.2	Gallatin River
+1.4	+1.2	Missouri River above Canyon Ferry
+1.1	+0.4	Missouri River below Canyon Ferry
+0.7	-0.2	Smith River
+1.1	-0.4	Sun River
+0.8	+0.5	Teton River
-0.6	-2.8	Birch/Dupuyer Creeks
+1.8	-2.5	Upper Judith River
----	+0.3	Marias River above Tiber
----	-0.6	Marias River below Tiber
+1.3	-1.3	Musselshell River
----	-0.5	Missouri River above Ft. Peck
-1.7	-3.0	Missouri River below Ft. Peck
-1.1	+0.7	St. Mary River
-0.1	-3.1	Milk River
+0.2	+0.9	Dearborn River near Craig
+1.7	+1.8	Yellowstone River above Livingston
+0.2	0.0	Shields River
+3.3	+0.5	Boulder River (Yellowstone)
+0.7	+0.3	Stillwater River
+1.5	-2.6	Rock/Red Lodge Creeks
+1.4	+2.1	Clarks Fork River
+1.6	+1.5	Yellowstone River above Bighorn River
+2.9	-0.2	Bighorn River below Bighorn Lake
+1.2	+0.9	Little Bighorn River
+2.2	+0.7	Yellowstone River below Bighorn River
+2.6	+1.7	Tongue River
+1.9	-1.3	Powder River

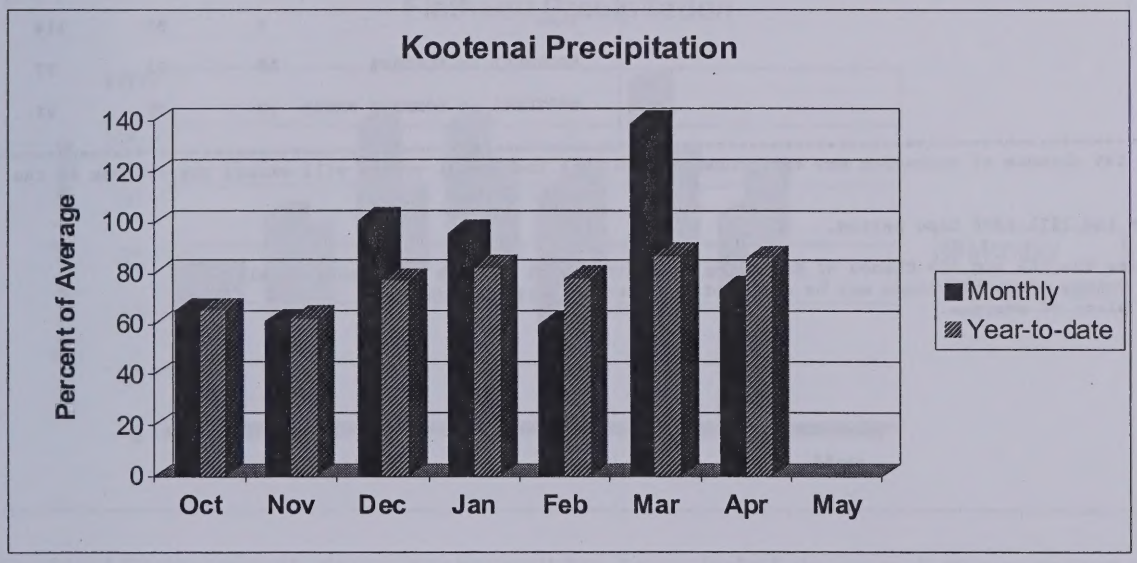
Kootenai River Basin in Montana

Snowpack in the Kootenai River Basin was near average. Snow water content was 97 percent of average and 72 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001and 2005; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 75 percent of average and 83 percent of last year. Valley precipitation during April was 57 percent of average and 122 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 86 percent of average and 80 percent of last year.



Lake Koocanusa storage was 182 percent of average and 110 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was -0.9 in the Tobacco River; -1.0 in the Kootenai Ft. Steele to Libby Dam; -0.3 in the Kootenai River below Libby Dam; +1.4 in the Fisher River; and -0.4 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	MAY-JUL	62	80	92	84	104	122	110
	MAY-SEP	69	90	104	84	118	139	124
LIBBY RES Inflow (1,2)	MAY-JUL	3650	4210	4460	87	4710	5270	5120
	MAY-SEP	4290	4970	5280	86	5590	6270	6120
FISHER RIVER nr Libby	MAY-JUL	140	162	177	114	192	215	155
	MAY-SEP	153	177	194	114	210	235	170
YAAK RIVER nr Troy	MAY-JUL	250	290	320	91	350	390	350
	MAY-SEP	265	305	335	91	365	405	370
KOOTENAI at Leonia (1,2)	MAY-JUL	4540	5090	5340	87	5590	6140	6170
	MAY-SEP	5330	5970	6260	86	6550	7190	7250

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	3548.0	3227.0	1948.9

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	23	83	85
KOOTENAI MAINTSTEM	4	75	94
TOBACCO	3	68	87
FISHER	5	68	102
YAAK	4	82	114
KOOTENAI in MONTANA	15	72	97
KOOTENAI ab BONNERS FERRY	38	77	91

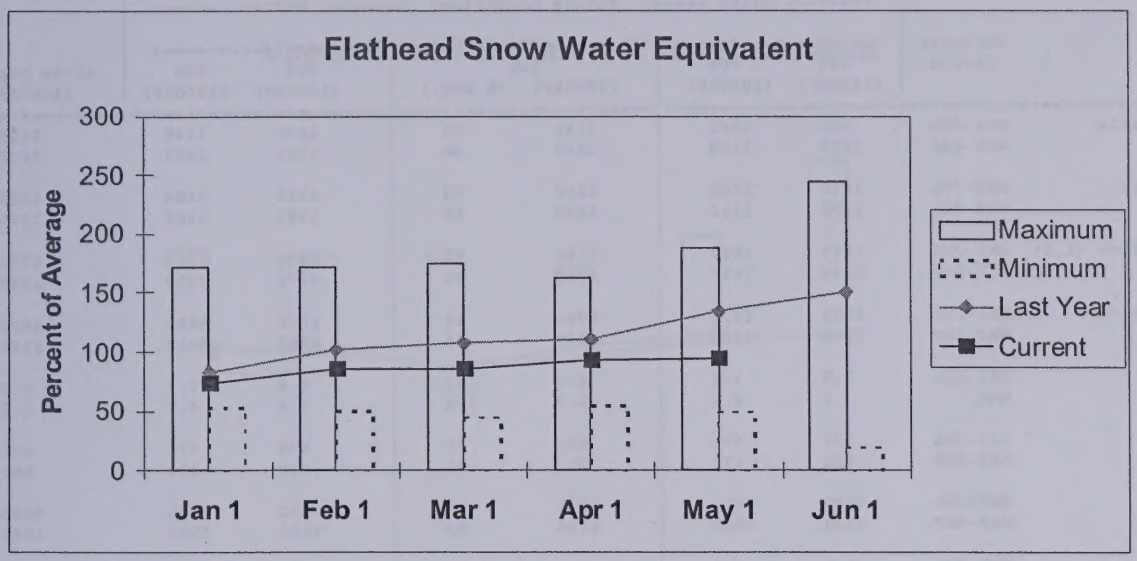
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

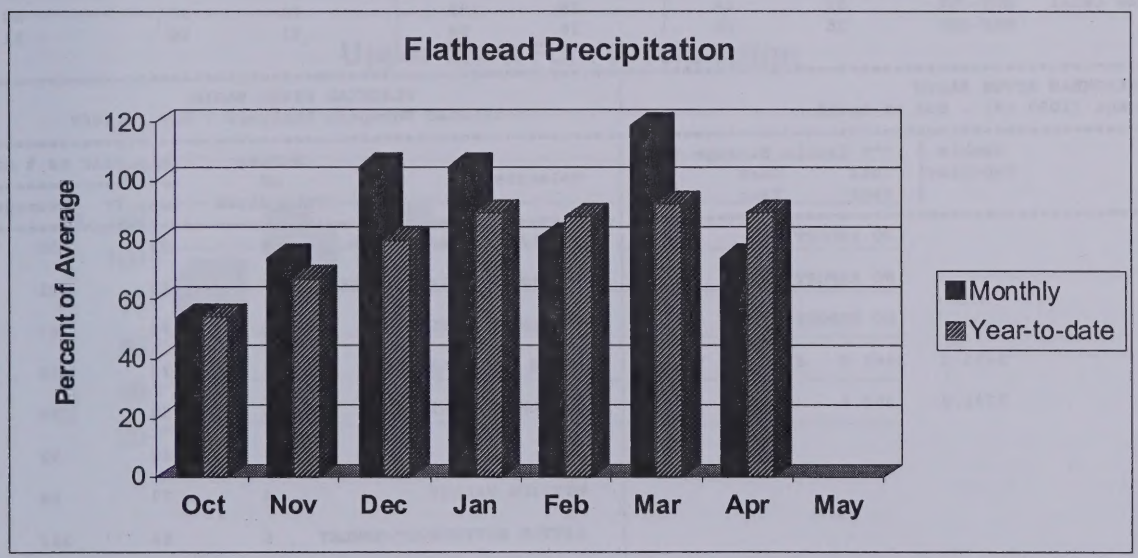
Flathead River Basin

Snowpack in the Flathead River Basin was slightly below average and increased 1 percent from April 1. Snow water content was 94 percent of average and 70 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 76 percent of average and 85 percent of last year. Valley precipitation during April was 57 percent of average and 111 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 89 percent of average and 90 percent of last year.



Combined Camas reservoir storage was not available; Lower Jocko Lake reservoir storage was not available; combined Mission Valley reservoir storage was not available; Hungry Horse storage was 131 percent of average and 117 percent of last year; and Flathead Lake storage was 86 percent of average and 120 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was -2.2 in the North Fork Flathead River; -0.5 in the Middle Fork Flathead River; +2.4 in the South Fork Flathead River; +0.1 in the Flathead River at Columbia Falls; -0.6 in the Swan River; +0.9 in the Flathead River at Polson; not available in the Mission Valley; and not available in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	MAY-JUL	945	1060	1140	80	1220	1340	1420
	MAY-SEP	1070	1190	1280	80	1370	1490	1600
MF FLATHEAD nr West Glacier	MAY-JUL	1080	1180	1250	90	1320	1420	1390
	MAY-SEP	1200	1310	1380	90	1450	1560	1540
HUNGRY HORSE Reservoir Inflow (1,2)	MAY-JUL	1400	1520	1580	92	1640	1760	1710
	MAY-SEP	1490	1630	1700	92	1770	1910	1840
FLATHEAD at Columbia Falls (2)	MAY-JUL	3620	3890	4080	88	4270	4540	4630
	MAY-SEP	3970	4280	4490	88	4700	5010	5110
ASHLEY CREEK nr Marion (2)	MAY-JUL	1.5	3.4	4.6	102	5.8	7.7	4.5
	MAY	1.1	2.2	2.9	104	3.6	4.7	2.8
SWAN RIVER nr Bigfork	MAY-JUL	370	405	430	92	455	490	470
	MAY-SEP	430	470	500	91	530	570	550
FLATHEAD LAKE Inflow (1,2)	MAY-JUL	4390	4610	4710	89	4810	5030	5320
	MAY-SEP	4800	5060	5180	89	5300	5560	5840
MILL CREEK nr Niarada	MAY-JUL	2.3	2.8	3.1	110	3.4	3.9	2.8
	MAY-SEP	2.6	3.1	3.4	108	3.7	4.2	3.2
SOUTH CROW CREEK nr Ronan	MAY-JUL	6.9	8.2	9.1	100	10.0	11.3	9.1
	MAY-SEP	8.0	9.5	10.5	100	11.5	13.0	10.5
MISSION CREEK nr St Ignatius	MAY-JUL	19.8	22	24	101	26	28	24
	MAY-SEP	24	27	29	101	31	34	29
SOUTH FORK JOCKO RV nr Arlee	MAY-JUL	20	25	28	105	31	36	27
	MAY-SEP	24	29	32	105	35	40	31
NF JOCKO RV blw Tabor Feeder Canal	MAY-JUL	23	26	28	102	30	33	28
	MAY-SEP	25	28	30	98	32	35	31

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)		NO REPORT		
LOWER JOCKO LAKE		NO REPORT		
MISSION VALLEY (8)		NO REPORT		
HUNGRY HORSE	3451.0	2561.0	2184.0	1954.8
FLATHEAD LAKE	1791.0	802.9	671.8	931.9

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	4	82	100
NF FLATHEAD in MONTANA	8	62	81
MIDDLE FORK FLATHEAD	5	70	87
SOUTH FORK FLATHEAD	7	76	96
STILLWATER-WHITEFISH	10	58	98
SWAN	7	85	92
MISSION VALLEY	4	79	96
LITTLE BITTERROOT-ASHLEY	6	48	122
JOCKO	5	93	109
FLATHEAD in MONTANA	38	70	94
FLATHEAD RIVER BASIN	42	71	95

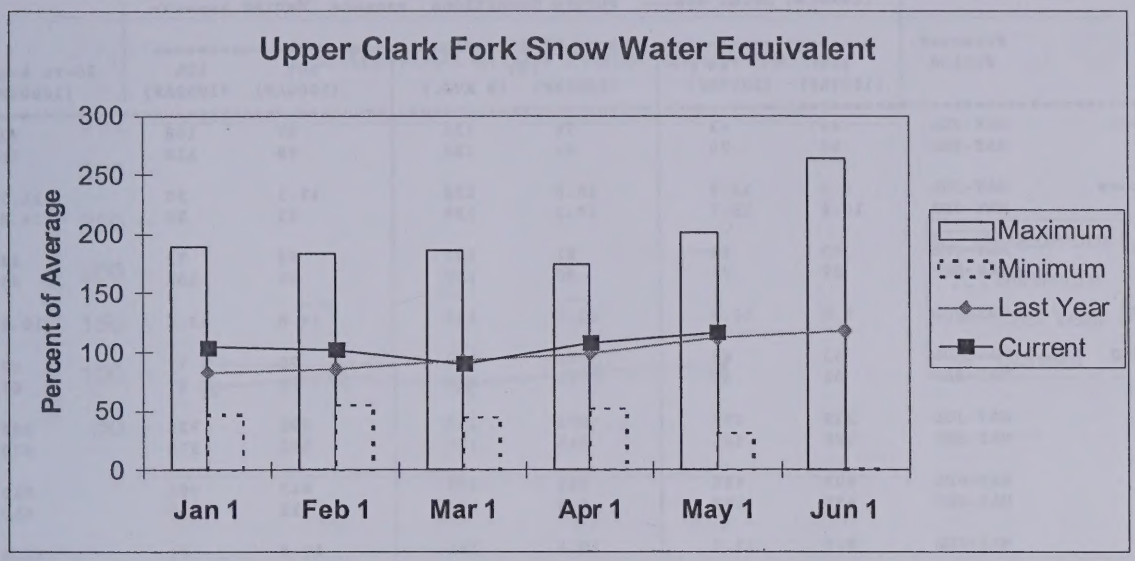
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

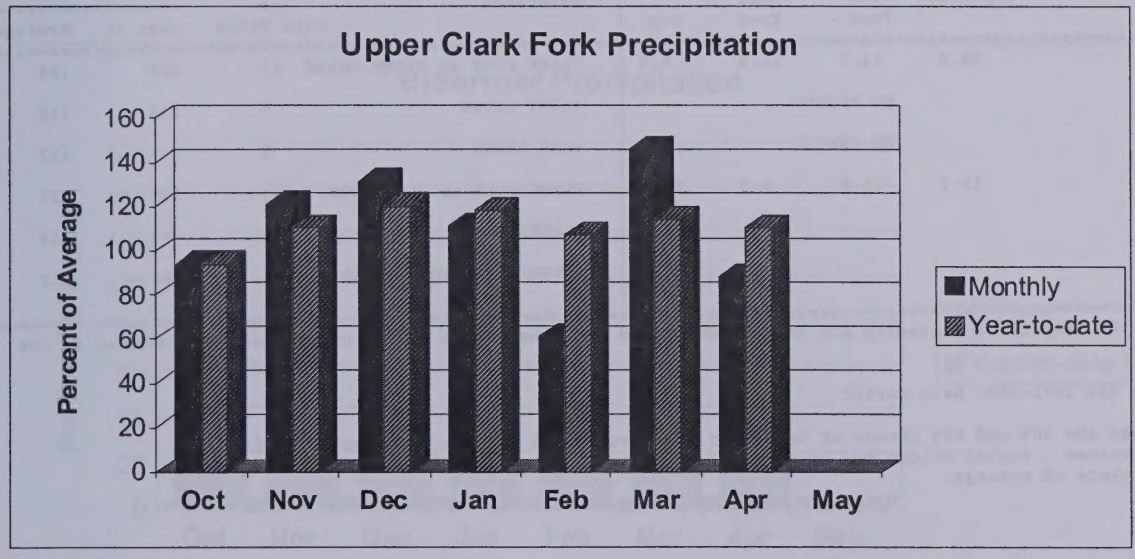
Upper Clark Fork River Basin

Snowpack in the Upper Clark Fork River Basin was above average and increased 9 percent from April 1. Snow water content was 117 percent of average and 99 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 89 percent of average and 109 percent of last year. Valley precipitation during April was 79 percent of average and 116 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 110 percent of average and 114 percent of last year.



East Fork Reservoir was 119 percent of average and 104 percent of last year; Georgetown Lake storage was not available; Lower Willow Creek storage was not available; and Nevada Creek storage was 106 percent of average and 145 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +2.1 in the Clark Fork River above Milltown; and +2.3 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LITTLE BLACKFOOT nr Garrison	MAY-JUL	44	63	76	121	89	108	63
	MAY-SEP	50	70	84	120	98	118	70
FLINT CREEK nr Southern Cross	MAY-JUL	9.9	12.9	15.0	128	17.1	20	11.7
	MAY-SEP	10.4	15.0	18.2	128	21	26	14.2
FLINT CREEK blw Boulder Ck	MAY-JUL	43	54	61	127	68	79	48
	MAY-SEP	59	71	80	127	89	101	63
LOWER WILLOW CK RES Inflow	MAY-JUL	8.0	10.8	12.8	126	14.8	17.6	10.2
MF ROCK CREEK nr Philipsburg	MAY-JUL	53	60	65	110	70	77	59
	MAY-SEP	61	69	74	110	79	87	67
ROCK CREEK nr Clinton	MAY-JUL	225	255	275	115	295	325	240
	MAY-SEP	260	295	315	115	335	370	275
CLARK FORK abv Milltown	MAY-JUL	405	495	555	109	615	705	510
	MAY-SEP	495	595	660	108	725	825	610
NEVADA CREEK nr Helmville	MAY-JUL	9.6	13.0	15.3	110	17.6	21	13.9
BLACKFOOT RIVER nr Bonner	MAY-JUL	640	705	750	111	795	860	675
	MAY-SEP	735	805	855	112	905	975	765
CLARK FORK abv Missoula	MAY-JUL	1190	1260	1310	110	1360	1430	1190
	MAY-SEP	1380	1460	1520	111	1580	1660	1370

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	11.7	11.2	9.8
GEORGETOWN LAKE		NO REPORT		
LOWER WILLOW CREEK		NO REPORT		
NEVADA CREEK	12.6	10.6	7.3	10.0

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	13	116	124
FLINT CREEK	6	116	135
ROCK CREEK	5	107	117
CLARK FORK ab BLACKFOOT	21	109	122
BLACKFOOT	14	83	105
UPPER CLARK FORK BASIN	33	99	117

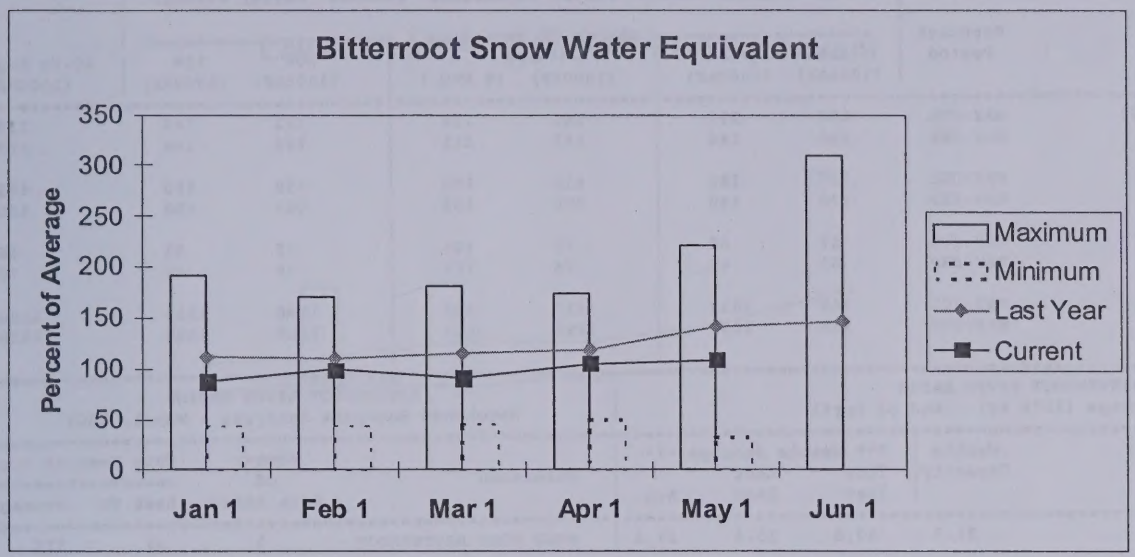
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

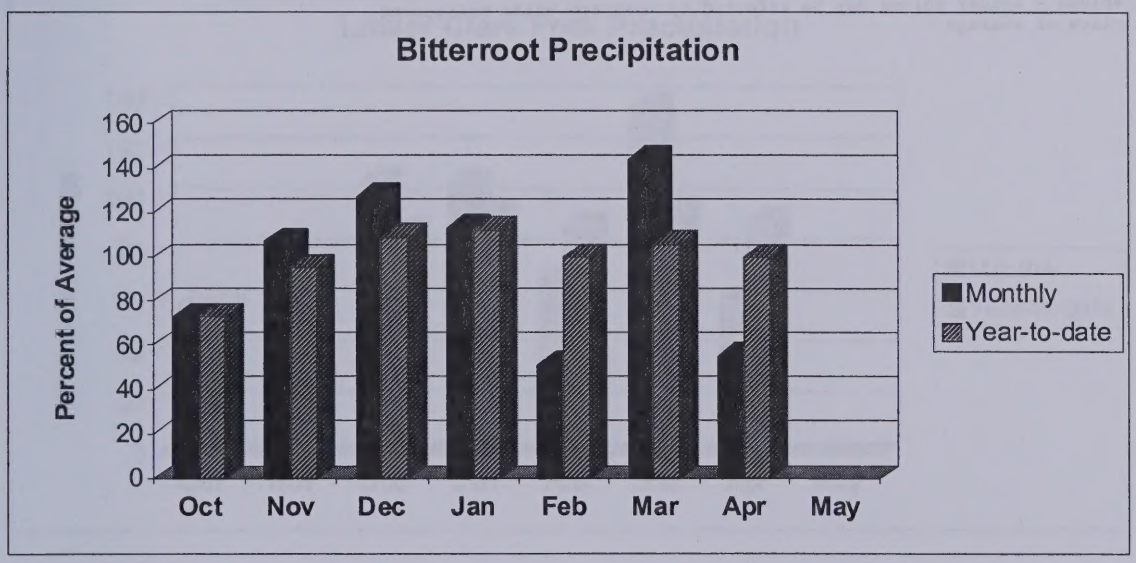
Bitterroot River Basin

Snowpack in the Bitterroot River Basin was slightly above average and increased 4 percent from April 1. Snow water content was 109 percent of average and 77 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977 and 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987,1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 58 percent of average and 70 percent of last year. Valley precipitation during April was 30 percent of average and 46 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 100 percent of average and 89 percent of last year.



Painted Rocks Lake storage was 180 percent of average and 200 percent of last year and Como storage was 99 percent of average and 113 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +1.0 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	MAY-JUL	112	129	140	112	151	168	125
	MAY-SEP	120	140	153	111	166	186	138
BITTERROOT nr Darby	MAY-JUL	335	380	415	103	450	495	405
	MAY-SEP	390	440	470	102	500	550	460
COMO RESERVOIR Inflow	MAY-JUL	57	65	70	106	75	83	66
	MAY-SEP	61	69	74	106	79	87	70
BITTERROOT at Missoula	MAY-JUL	905	1030	1110	101	1190	1310	1100
	MAY-SEP	995	1130	1220	101	1310	1440	1210

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	30.8	15.4	17.1
COMO	34.9	20.7	18.3	20.9

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	3	87	115
EAST SIDE BITTERROOT	5	83	105
WEST SIDE BITTERROOT	3	67	106
BITTERROOT RIVER BASIN	10	77	109

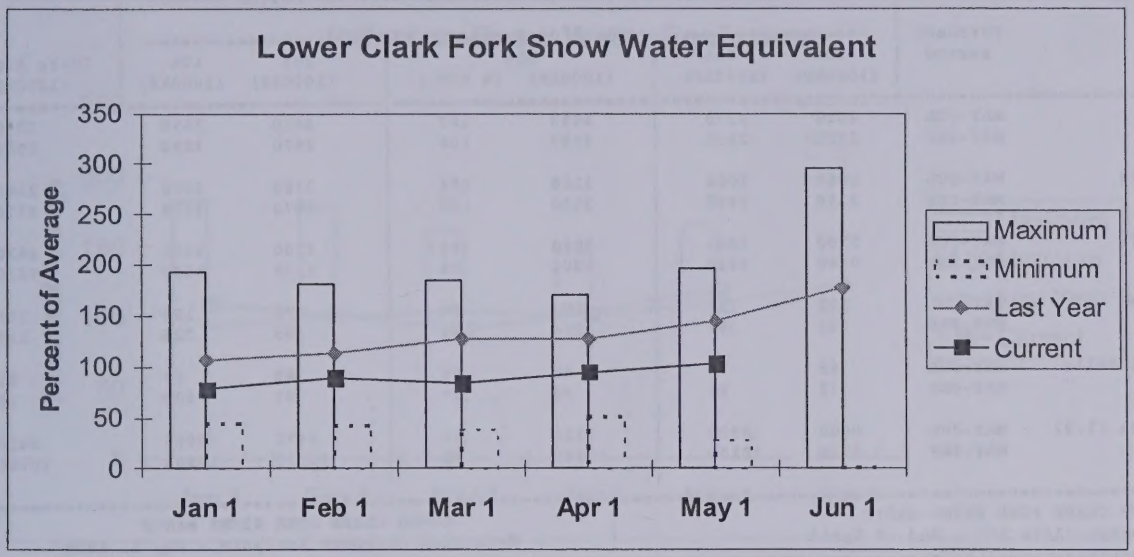
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

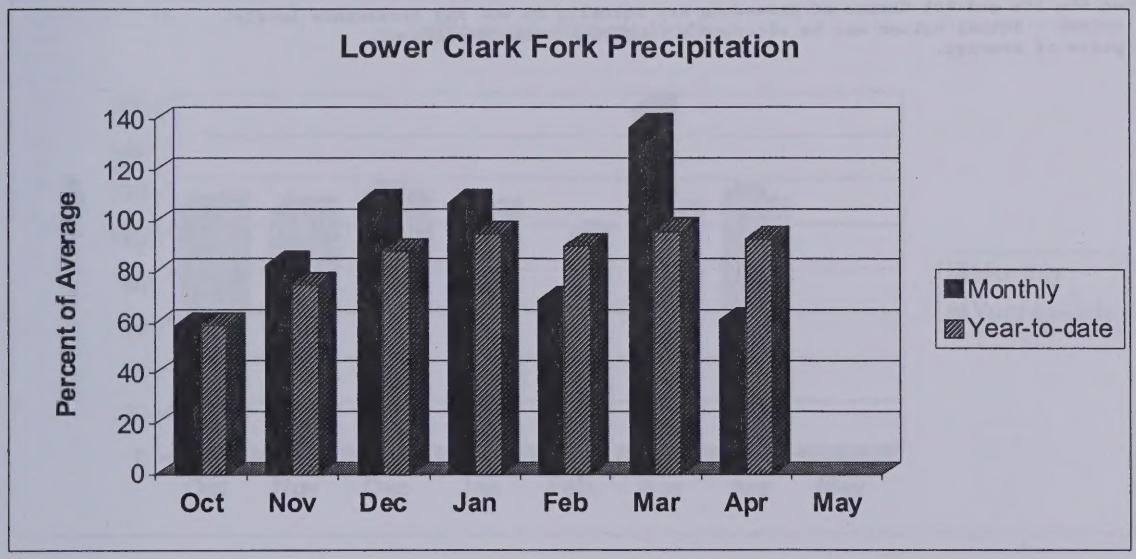
Lower Clark Fork River Basin

Snowpack in the Lower Clark Fork River Basin was near average and increased 8 percent from April 1. Snow water content was 103 percent of average and 69 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during April was 62 percent of average and 77 percent of last year. Valley precipitation during April was 53 percent of average and 76 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 93 percent of average and 84 percent of last year.



Noxon Rapids storage was 116 percent of average and 101 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +1.8 in the Clark Fork River below Bitterroot River and +1.2 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<======= Drier ======= Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK blw Missoula	MAY-JUL	2010	2270	2450	107	2630	2890	2290
	MAY-SEP	2310	2590	2780	108	2970	3250	2580
CLARK FORK at St. Regis (1)	MAY-JUL	2950	3060	3110	104	3160	3270	2980
	MAY-SEP	3390	3490	3530	105	3570	3670	3370
CLARK FORK nr Plains (1,2)	MAY-JUL	7750	7980	8090	94	8200	8430	8630
	MAY-SEP	8640	8930	9060	94	9190	9480	9610
THOMPSON nr Thompson Falls	MAY-JUL	102	130	150	94	170	198	159
	MAY-SEP	123	153	174	94	195	225	185
PROSPECT CREEK at Thompson Falls	MAY-JUL	65	75	82	94	89	99	87
	MAY-SEP	72	83	90	94	97	108	96
CLARK FK at Whitehorse Rpds (1,2)	MAY-JUL	8450	8990	9230	96	9470	10000	9590
	MAY-SEP	9720	10100	10300	96	10500	10900	10700

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	316.4	313.0	272.3

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
LOWER CLARK FORK BASIN	12	69	103

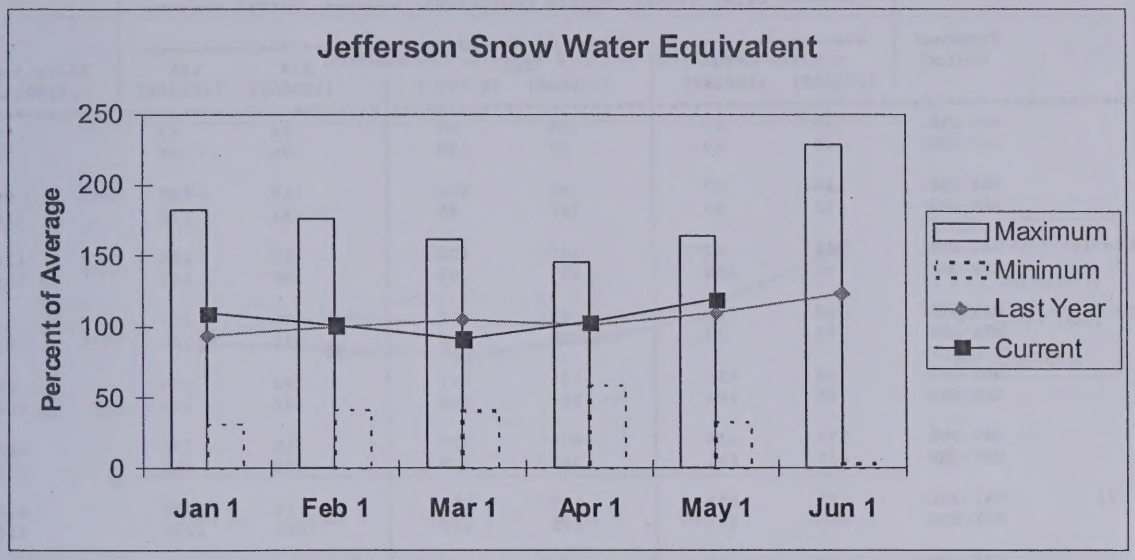
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

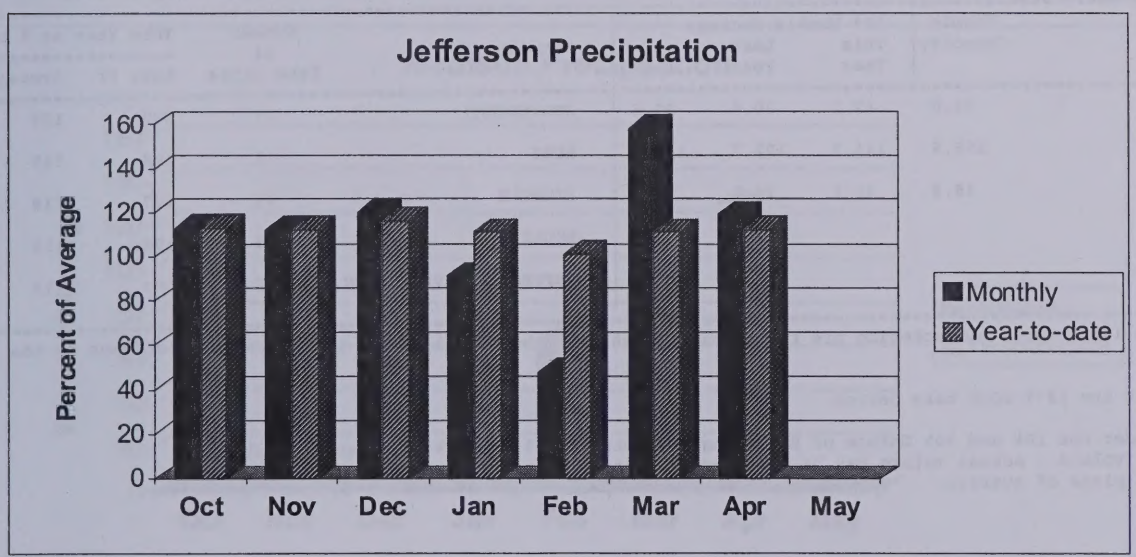
Jefferson River Basin

Snowpack in the Jefferson River Basin was above average and increased 16 percent from April 1. Snow water content was 119 percent of average and 108 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 117 percent of average and 142 percent of last year. Valley precipitation during April was 113 percent of average and 209 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 112 percent of average and 108 percent of last year.



Lima storage was 53 percent of average and 38 percent of last year; Clark Canyon storage was 76 percent of average and 94 percent of last year; and Ruby River storage was 99 percent of average and 99 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was -1.0 in the Beaverhead River; +0.7 in the Ruby River; +0.8 in the Big Hole River; -0.1 in the Boulder River; and +0.7 in the Jefferson River near Three Forks.

JEFFERSON RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	MAY-JUL	49	60	68	97	76	87	70
	MAY-SEP	55	68	77	99	86	99	78
CLARK CANYON Inflow (2)	MAY-JUL	36	67	91	101	115	150	90
	MAY-SEP	52	89	115	99	141	178	116
BEAVERHEAD RIVER at Barretts (2)	MAY-JUL	48	82	120	100	158	215	120
	MAY-SEP	60	106	151	99	196	265	153
RUBY RIVER Reservoir Inflow	MAY-JUL	60	74	83	112	92	106	74
	MAY-SEP	73	89	100	110	111	127	91
BIG HOLE RIVER at Wisdom	MAY-JUL	89	116	134	141	152	179	95
	MAY-SEP	95	124	144	139	164	193	104
BIG HOLE RIVER nr Melrose	MAY-JUL	575	635	675	130	715	775	520
	MAY-SEP	625	695	740	129	785	855	575
JEFFERSON nr Twin Bridges (2)	MAY-JUL	535	695	805	127	915	1070	635
	MAY-SEP	575	765	895	126	1020	1210	710
BOULDER RIVER nr Boulder	MAY-JUL	62	73	80	118	87	98	68
	MAY-SEP	66	79	87	116	95	108	75
WILLOW CREEK Reservoir Inflow	MAY-JUL	9.9	14.6	17.8	117	21	26	15.2
	MAY-SEP	13.5	18.6	22	126	25	30	17.5
JEFFERSON RIVER nr Three Forks (2)	MAY-JUL	530	700	820	137	940	1110	600
	MAY-SEP	605	800	935	138	1070	1270	680

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	62.2	30.4	57.5
CLARK CANYON	255.6	146.3	122.7	160.6
RUBY RIVER	38.8	34.8	36.1	36.3

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	17	109	122
RUBY	11	108	115
BIGHOLE	19	107	118
BOULDER	8	106	115
JEFFERSON RIVER BASIN	45	108	119

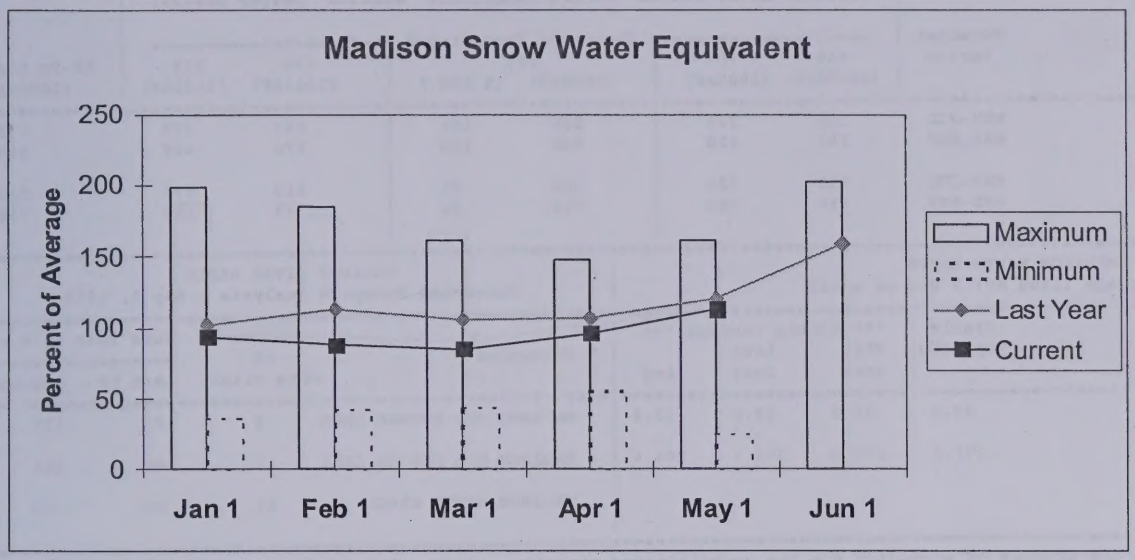
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

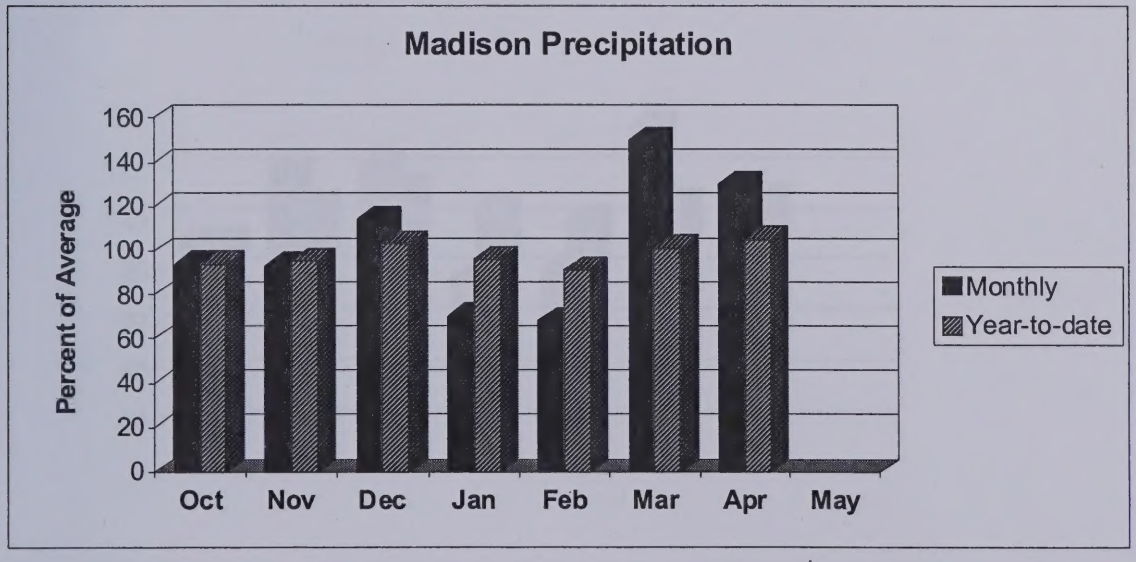
Madison River Basin

Snowpack in the Madison River Basin was above average and increased 17 percent from April 1. Snow water content was 113 percent of average and 92 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 130 percent of average and 136 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 105 percent of average and 93 percent of last year.



Ennis Lake storage was 96 percent of average and 110 percent of last year and Hebgen Lake storage was 108 percent of average and 99 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +0.7 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	MAY-JUL	290	320	340	102	360	390	335
	MAY-SEP	385	420	445	100	470	505	445
ENNIS Reservoir Inflow (2)	MAY-JUL	455	520	565	97	610	675	580
	MAY-SEP	590	665	720	96	775	850	750

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	32.5	29.6	33.8
HEBGEN LAKE	377.5	275.2	276.7	254.6

MADISON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
MADISON abv HEBGEN LAKE	6	80	111
MADISON blw HEBGEN LAKE	12	99	114
MADISON RIVER BASIN	18	92	113

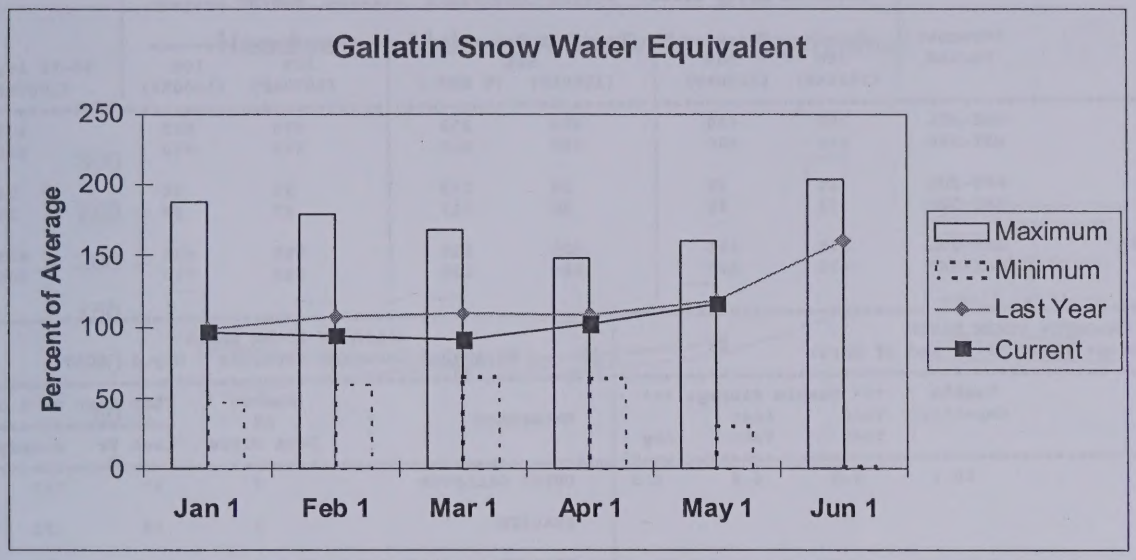
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

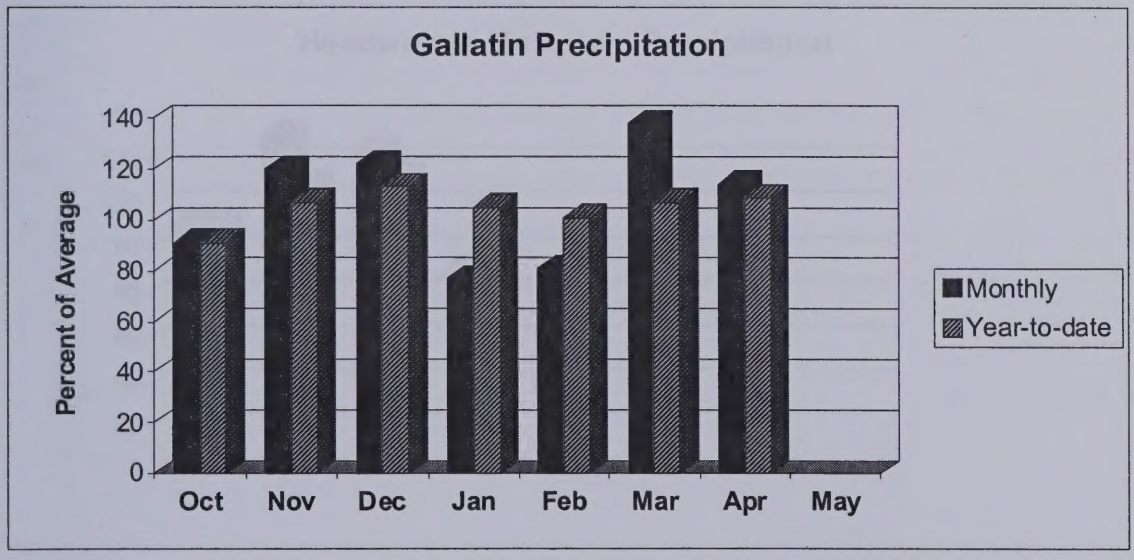
Gallatin River Basin

Snowpack in the Gallatin River Basin was above average and increased 14 percent from April 1. Snow water content was 116 percent of average and 98 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977 and 2005; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 108 percent of average and 124 percent of last year. Valley precipitation during April was 172 percent of average and 129 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 109 percent of average and 100 percent of last year.



Middle Creek storage was 123 percent of average and 105 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +2.1 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	MAY-JUL	385	430	455	112	480	525	405
	MAY-SEP	450	500	530	110	560	610	480
HYALITE RESERVOIR Inflow	MAY-JUL	20	22	23	115	24	26	20
	MAY-SEP	23	25	26	113	27	29	23
GALLATIN RIVER at Logan (2)	MAY-JUL	375	455	505	119	555	635	425
	MAY-SEP	430	520	585	116	650	740	505

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	6.5	6.2	5.3

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	7	97	115
HYALITE	3	99	122
BRIDGER	2	100	115
GALLATIN RIVER BASIN	12	98	116

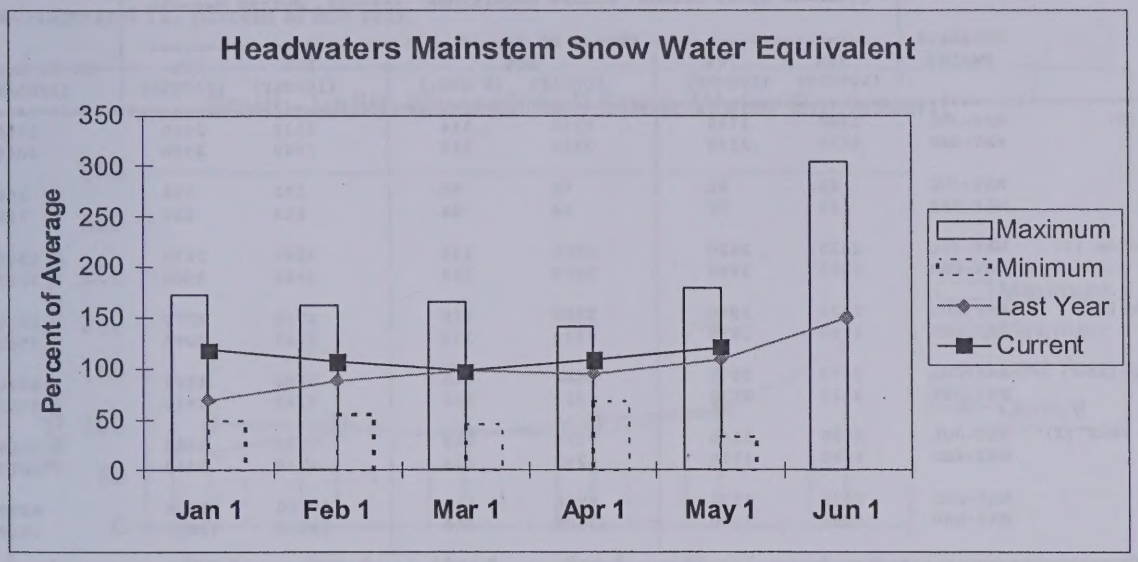
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

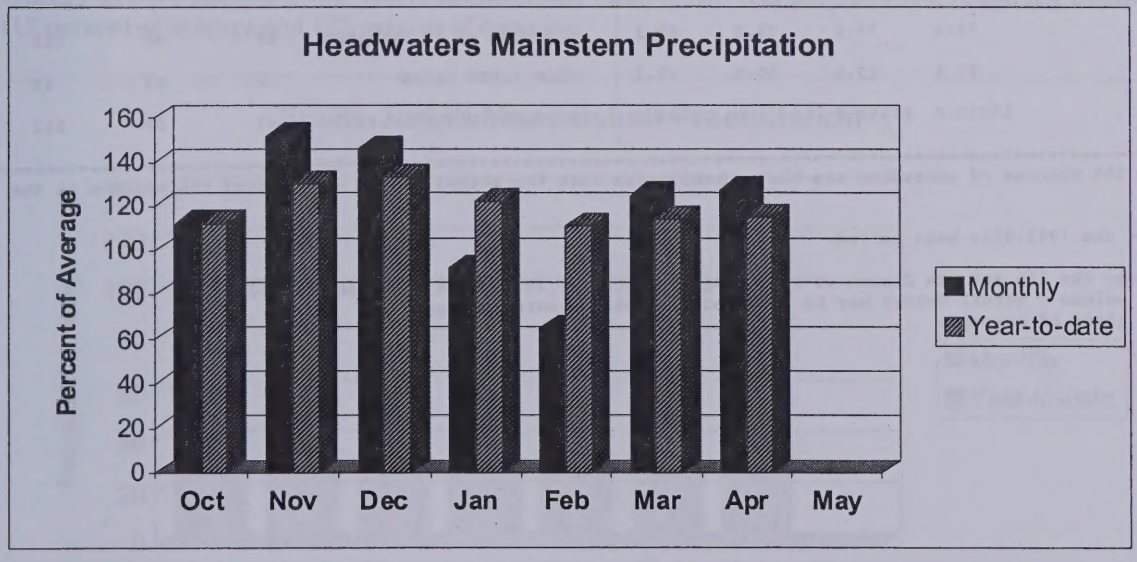
Missouri Mainstem River Basin

Snowpack in the Headwaters Missouri Mainstem River Basin was above average and increased 13 percent from April 1. Snow water content was 121 percent of average and 111 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961, 1966, and 2005; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 103 percent of average and 137 percent of last year. Valley precipitation during April was 151 percent of average and 256 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 115 percent of average and 138 percent of last year.



Canyon Ferry Lake storage was 103 percent of average and 107 percent of last year; Helena Valley storage was 111 percent of average and 95 percent of last year; Lake Helena storage was 93 percent of average and 102 percent of last year; Hauser & Helena storage was 123 percent of average and 101 percent of last year; Holter Lake storage was 105 percent of average and the same as last year; and Fort Peck Lake storage was 74 percent of average and 128 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +1.4 in the Missouri River above Canyon Ferry; +1.1 in the Missouri River below Canyon Ferry; not available in the Missouri River above Fort Peck; and -1.7 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	MAY-JUL	1480	1750	1940	114	2130	2400	1700
	MAY-SEP	1670	2100	2330	114	2560	2990	2040
DEARBORN nr Craig	MAY-JUL	42	68	85	80	102	128	106
	MAY-SEP	49	76	94	86	112	139	110
MISSOURI RIVER at Fort Benton (2)	MAY-JUL	2030	2520	2850	114	3180	3670	2500
	MAY-SEP	2500	3090	3500	114	3910	4500	3080
MISSOURI RIVER at Virgelle (2)	MAY-JUL	2370	2940	3320	115	3700	4270	2890
	MAY-SEP	2980	3570	4030	115	4490	5080	3500
MISSOURI RIVER nr Landusky (2)	MAY-JUL	2470	3070	3480	113	3890	4490	3080
	MAY-SEP	3030	3720	4220	113	4720	5410	3750
MISSOURI RIVER below Fort Peck (2)	MAY-JUL	2560	3160	3570	116	3980	4580	3080
	MAY-SEP	3040	3750	4240	116	4730	5440	3670
LAKE SAKAKAWEA Inflow (2)	MAY-JUL	6470	8100	9210	110	10300	12000	8370
	MAY-SEP	8100	9500	10800	110	12100	13500	9810

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1527.0	1432.0	1483.5
HELENA VALLEY	9.2	8.4	8.8	7.6
LAKE HELENA	12.7	10.9	10.7	11.7
HAUSER & HELENA	74.6	74.0	73.3	60.1
HOLTER LAKE	81.9	80.6	80.9	77.1
FORT PECK LAKE	18910.0	11250.0	8811.0	15122.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	9	111	121
SMITH-JUDITH-MUSSELSHELL	14	106	117
SUN-TETON-MARIAS	13	86	104
MAINSTEM ab FT PECK RES	35	98	112
MILK RIVER BASIN	3	30	49
MISSOURI MAINSTEM BASIN	37	97	113

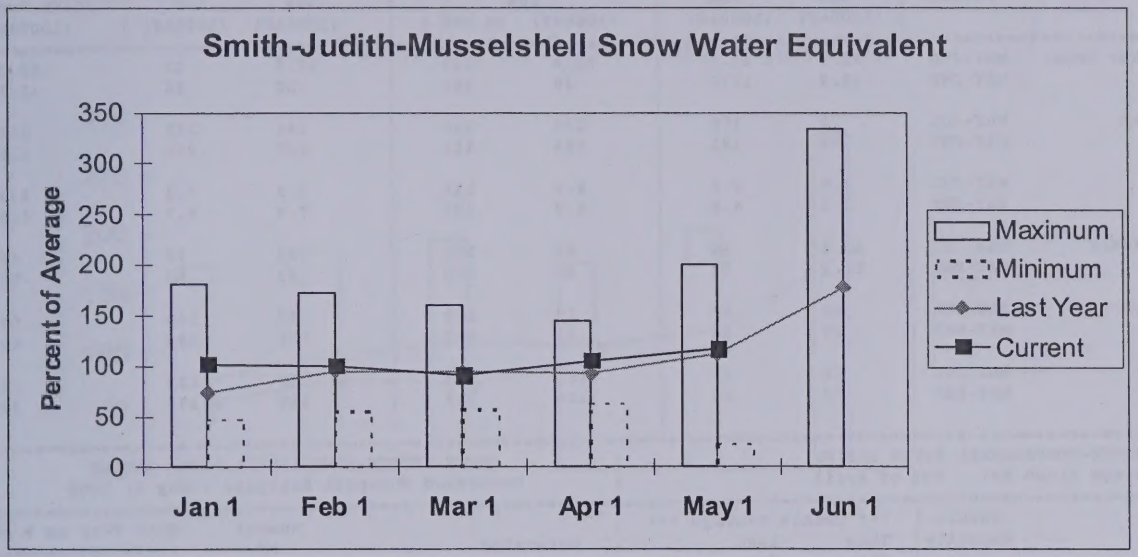
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

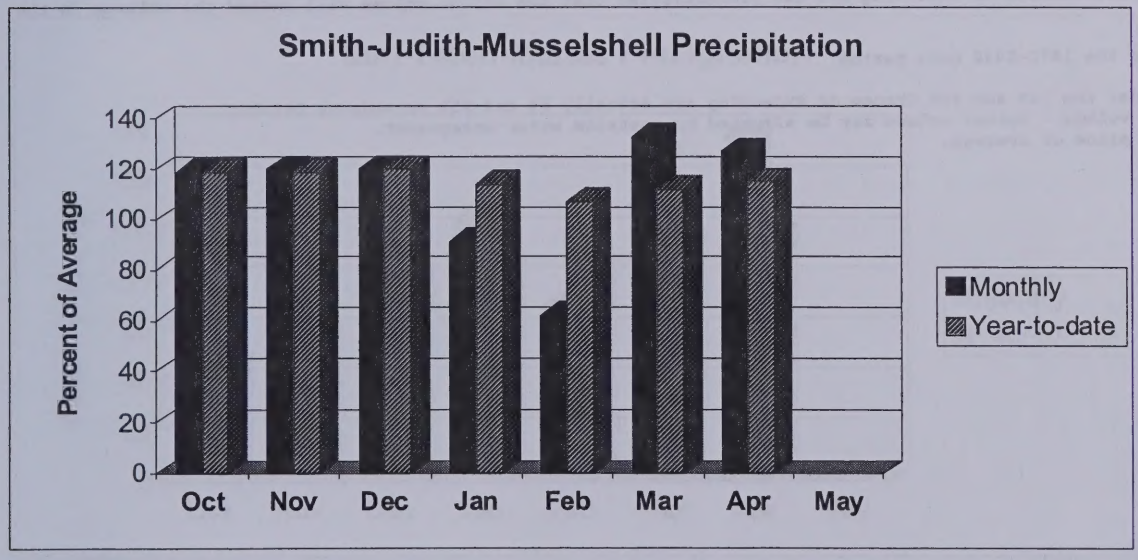
Smith-Judith-Musselshell River Basins

Snowpack in the Smith-Judith-Musselshell River Basins were above average and increased 12 percent from April 1. Snow water content in the Smith River Basin was 120 percent of average and 107 percent of last year; the Judith River Basin was 113 percent of average and 102 percent of last year; the Musselshell Basin River was 120 percent of average and 127 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987 and 2005; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994,and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Smith-Belts was 112 percent of average and 121 percent of last year; in the Judith was 132 percent of average and 210 percent of last year; and in the Musselshell was 143 percent of average and 350 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 115 percent of average and 127 percent of last year.



Smith River storage was 122 percent of average and 169 percent of last year; Ackley storage was 39 percent of average and 68 percent of last year; Bair storage was 64 percent of average and 194 percent of last year; Martinsdale storage was 102 percent of average; and Deadman's Basin was 92 percent of average and 182 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +0.7 in the Smith River; +1.8 in the Upper Judith River, and +1.3 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	MAY-JUL	11.9	14.9	16.9	112	18.9	22	15.1
	MAY-SEP	13.9	17.5	20	111	22	26	18.1
SMITH RIVER blw Eagle Creek	MAY-JUL	79	106	125	110	144	171	114
	MAY-SEP	88	121	144	111	167	200	130
NF MUSSELSHELL nr Delpine	MAY-JUL	2.5	3.9	4.9	132	5.9	7.3	3.7
	MAY-SEP	3.1	4.8	5.9	128	7.0	8.7	4.6
SF MUSSELSHELL abv Martinsdale	MAY-JUL	15.3	34	47	102	60	79	46
	MAY-SEP	17.1	37	50	100	63	83	50
MUSSELSHELL at Harlowton (2)	MAY-JUL	26	57	78	120	99	130	65
	MAY-SEP	26	59	81	117	103	136	69
MUSSELSHELL nr Roundup (2)	MAY-JUL	73	91	103	129	115	133	80
	MAY-SEP	72	91	104	127	117	136	82

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	11.0	6.5	9.0
ACKLEY LAKE	7.0	1.5	2.2	3.8
BAIR	7.0	3.5	1.8	5.5
MARTINSDALE	23.1	14.1	1.7	13.8
DEADMAN'S BASIN	72.2	54.0	29.6	58.9

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	8	107	120
HIGHWOOD	0	0	0
JUDITH	6	102	113
MUSSELSHELL	5	127	120
SMITH-JUDITH-MUSSELSHELL	14	106	117

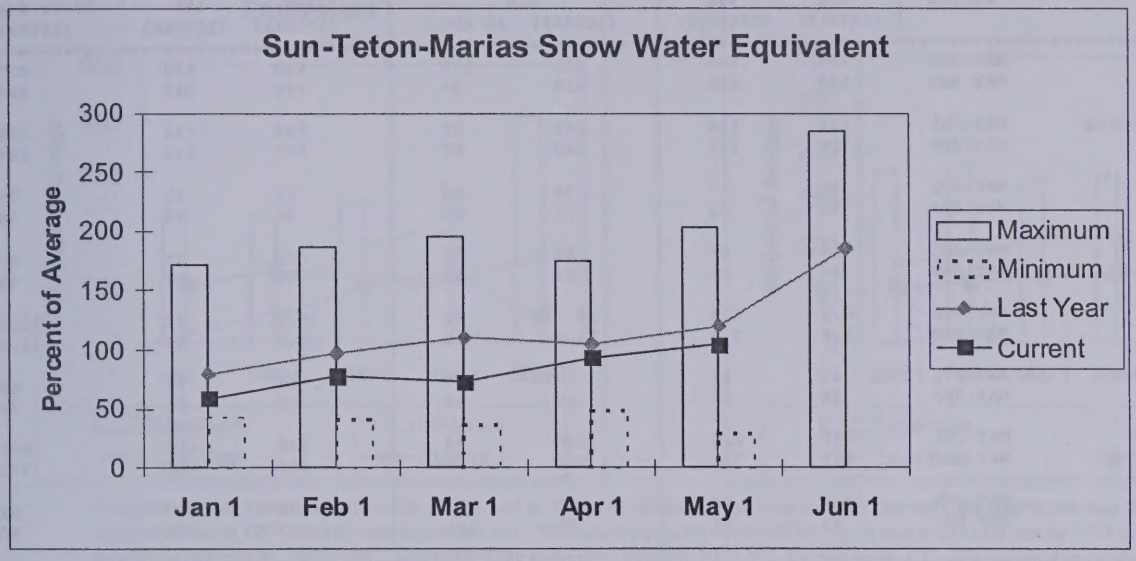
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

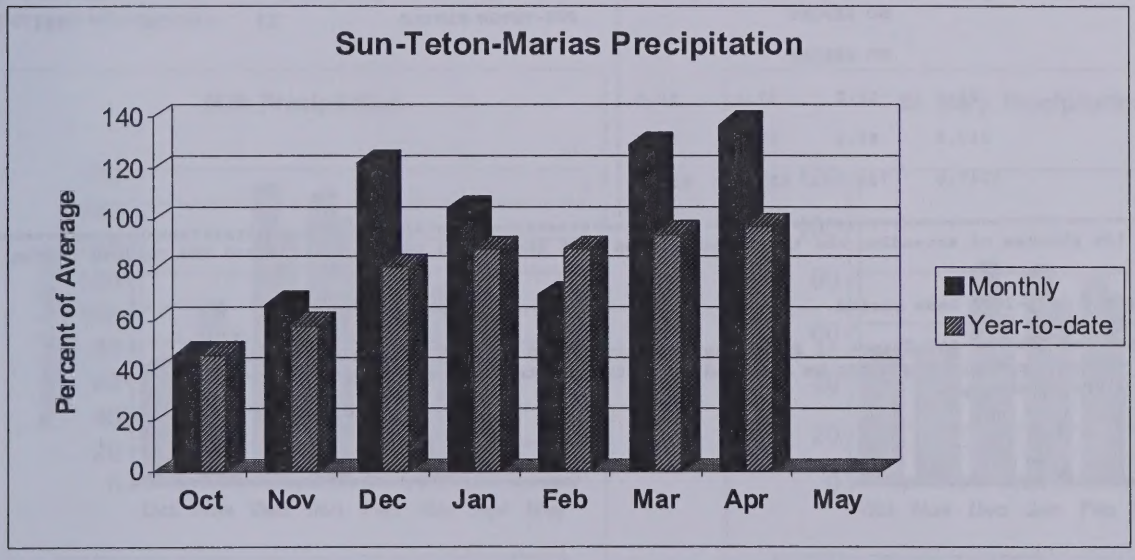
Sun-Teton-Marias River Basins

Snowpack in the Sun-Teton-Marias River Basins were near average and increased 11 percent from April 1. Snow water content in the Sun River Basin was 107 percent of average and 83 percent of last year; the Teton River Basin was 106 percent of average and 92 percent of last year; and the Marias River Basin was 100 percent of average and 88 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1972 and minimum swe was in 2005; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Sun was 156 percent of average and 260 percent of last year; in the Teton was 138 percent of average and 159 percent of last year; and in the Marias was 134 percent of average and 206 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 97 percent of average and 99 percent of last year.



Gibson storage was 117 percent of average and 317 percent of last year; Pishkun storage 73 percent of average; Willow Creek storage was 118 percent of average and 106 percent of last year; Lower Two Medicine Lake storage was not available; Four Horns Lake storage was not available; Swift storage was 88 percent of average and 95 percent of last year; Lake Frances storage was 92 percent of average and 554 percent of last year; and Lake Elwell (Tiber) storage was 108 percent of average and 114 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +1.1 in the Sun River; +0.8 in the Teton River; -0.6 in the Birch/Dupuyer Creeks; and not available in the Marias River above Tiber Reservoir and not available in the Marias River below Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	MAY-JUL	350	390	415	100	440	480	415
	MAY-SEP	390	430	460	99	490	530	465
TWO MEDICINE RIVER nr Browning	MAY-JUL	118	138	151	87	164	184	174
	MAY-SEP	126	147	162	87	177	198	187
BADGER CREEK nr Browning	MAY-JUL	46	57	64	84	71	82	76
	MAY-SEP	50	63	72	85	81	94	85
SWIFT RESERVOIR Inflow	MAY-JUL	37	47	53	93	59	69	57
	MAY-SEP	45	56	64	93	72	83	69
DUPUYER CREEK nr Valier	MAY-JUL	4.2	6.3	10.7	92	15.1	21	11.6
	MAY-SEP	4.8	7.3	12.2	92	17.1	24	13.3
CUT BANK CREEK nr Browning	MAY-JUL	41	52	59	86	66	77	69
	MAY-SEP	44	56	64	84	72	84	76
MARIAS RIVER nr Shelby (2)	MAY-JUL	141	225	285	83	345	430	345
	MAY-SEP	129	225	290	78	355	450	370
TETON nr Dutton	MAY-JUL	17.4	28	43	102	58	80	42
	MAY-SEP	20	35	51	102	67	91	50

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	72.0	22.7	61.8
PISHKUN	32.0	18.9	0.0	25.8
WILLOW CREEK	32.2	29.8	28.2	25.3
LOWER TWO MEDICINE LAKE		NO REPORT		
FOUR HORNS LAKE		NO REPORT		
SWIFT	30.0	16.2	17.1	18.5
LAKE FRANCES	112.0	69.3	12.5	75.6
LAKE ELWELL (TIBER)	1347.0	708.7	623.4	658.6

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	6	83	107
TETON	4	92	106
MARIAS	6	88	100
SUN-TETON-MARIAS	13	86	104

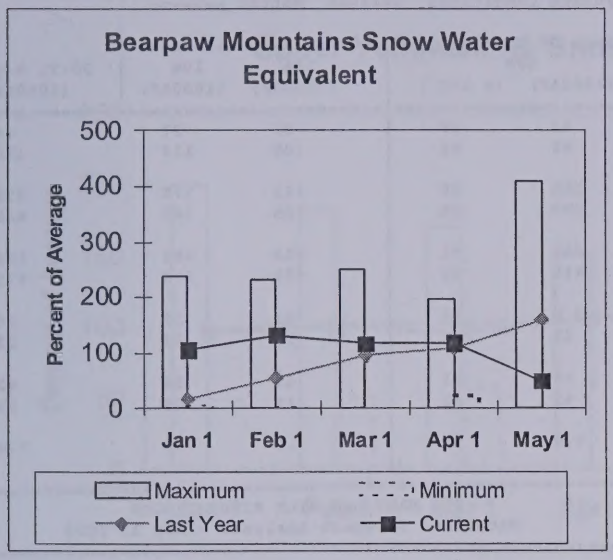
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

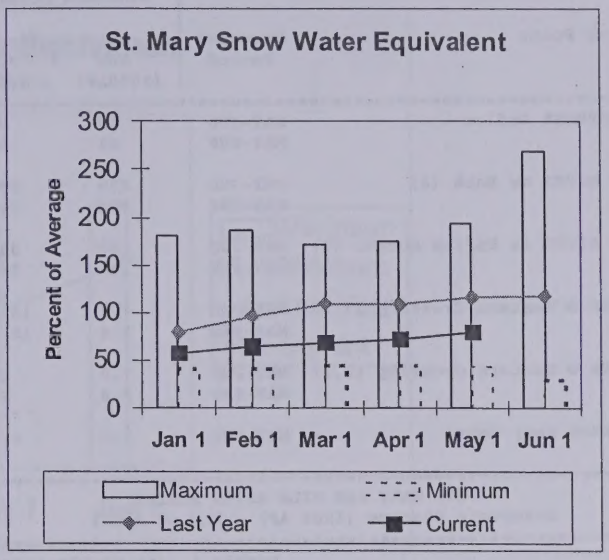
The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

St. Mary and Milk River Basins

Snowpack in the St. Mary and Milk River Basins were below average. The St. Mary snow water content was 80 percent of average and 69 percent of last year.

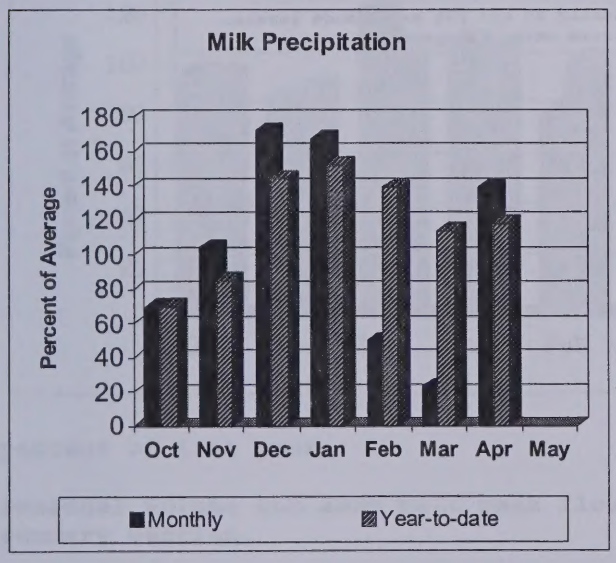


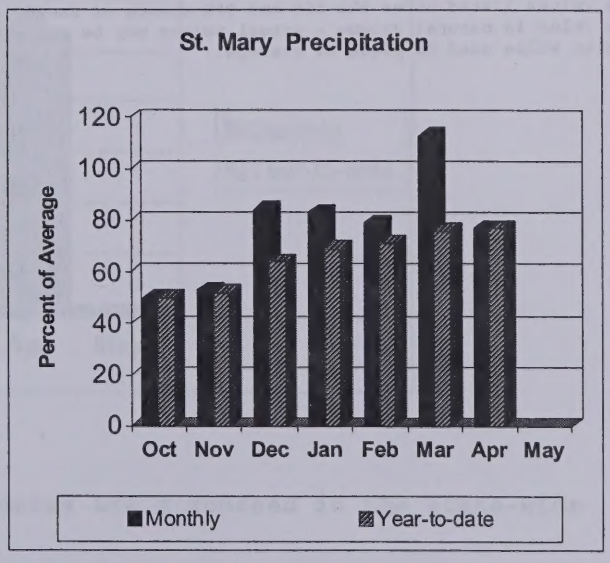


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 2005; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 2005; April maximum swe was in 1967 and 1972 and minimum swe was in 2005; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during April was 77 percent of average and 109 percent of last year; and in the Milk River Basin during April was 139 percent of average and 235 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 95 percent of average and 111 percent of last year.





Lake Sherburne storage was 128 percent of average and 528 percent of last year; Fresno storage was 94 percent of average and 197 percent of last year; Beaver Creek storage was not available; and Nelson storage was 137 percent of average and 304 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was -1.1 for the St. Mary River and -0.1 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	MAY-JUL	69	77	83	88	89	97	94
	MAY-SEP	82	91	98	88	105	114	112
ST. MARY RIVER nr Babb (2)	MAY-JUL	255	290	315	89	340	375	355
	MAY-SEP	305	345	375	88	405	445	425
ST. MARY RIVER at US/CAN Border (2)	MAY-JUL	280	330	365	91	400	450	400
	MAY-SEP	340	395	435	92	475	530	475
MILK RIVER @ Western Crossing (3)	MAY-JUL	4.7	15.3	19.0	95	22	29	20
	MAY-SEP	5.8	18.2	22	96	26	35	23
MILK RIVER @ Eastern Crossing (2,3)	MAY-JUL	7.0	27	34	81	41	54	42
	MAY-SEP	9.8	33	45	92	48	64	49
BEAVER CREEK near Havre	MAY-JUL	3.0	4.8	6.0	86	7.2	9.0	7.0

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	28.5	5.4	22.2
FRESNO	127.0	85.1	43.2	90.9
BEAVER CREEK		NO REPORT		
NELSON	66.8	58.3	19.2	42.7

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	8	69	80
BEARPAW MOUNTAINS	3	30	49
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	3	30	49
ST. MARY & MILK BASINS	11	68	80

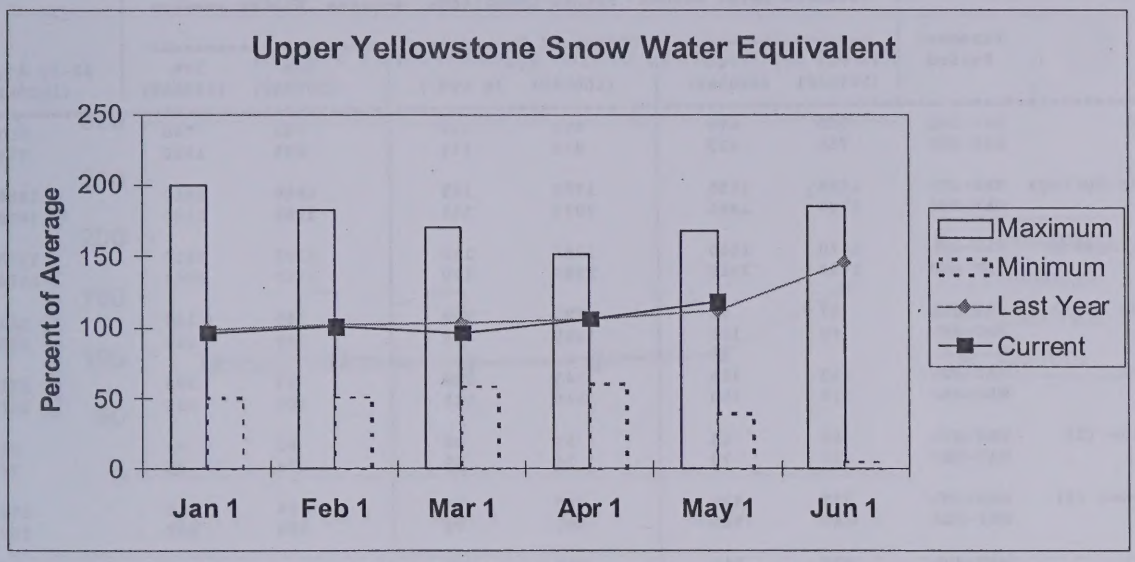
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

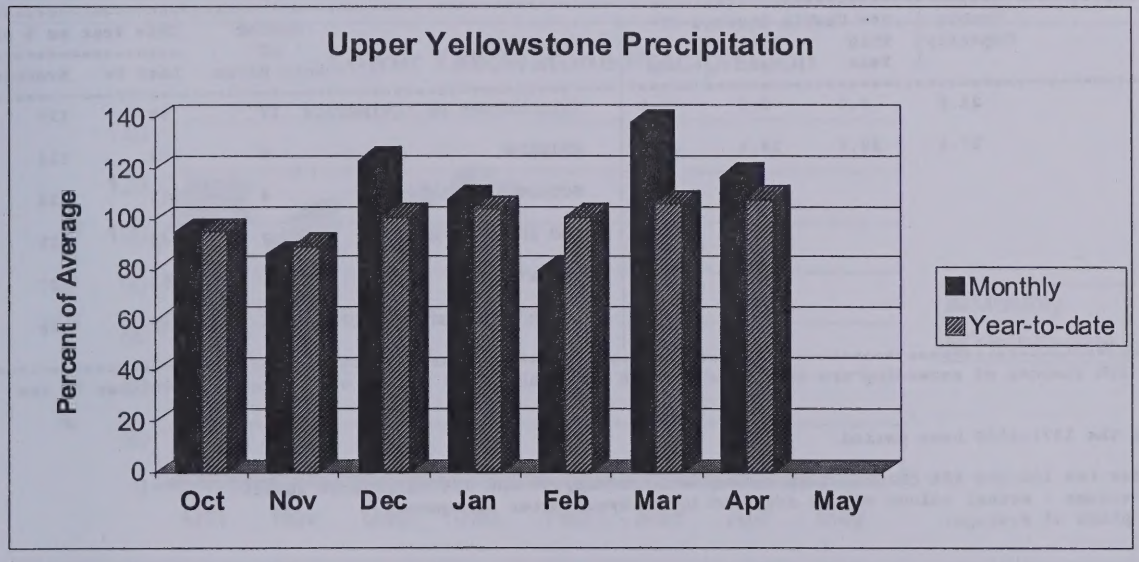
Upper Yellowstone River Basin

Snowpack in the Upper Yellowstone River Basin was above average and increased 12 percent from April 1. Snow water content was 118 percent of average and 107 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1997 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 114 percent of average and 174 percent of last year. Valley precipitation during April was 127 percent of average and 347 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 108 percent of average and 106 percent of last year.



percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +1.7 in the Yellowstone River above Livingston; +0.2 in the Shields River; +3.3 in the Boulder River; +0.7 in the Stillwater River; +1.5 in the Rock/Red lodge Creeks; +1.4 in the Clarks Fork River; and +1.6 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	MAY-JUL	560	620	660	119	700	760	555
	MAY-SEP	750	825	875	114	925	1000	770
YELLOWSTONE RIVER at Corwin Springs	MAY-JUL	1490	1650	1750	113	1850	2010	1550
	MAY-SEP	1760	1940	2070	111	2200	2380	1870
YELLOWSTONE RIVER near Livingston	MAY-JUL	1670	1860	1990	112	2120	2310	1770
	MAY-SEP	1980	2210	2360	110	2510	2740	2150
SHIELDS RIVER nr Livingston	MAY-JUL	57	96	123	102	150	189	121
	MAY-SEP	60	105	135	98	165	210	138
BOULDER RIVER at Big Timber	MAY-JUL	295	325	345	126	365	395	275
	MAY-SEP	315	350	375	125	400	435	300
MYSTIC LAKE Reservoir Inflow (2)	MAY-JUL	50	54	57	98	60	64	58
	MAY-SEP	63	70	74	99	78	85	75
STILLWATER RIVER nr Absarokee (2)	MAY-JUL	375	425	460	98	495	545	470
	MAY-SEP	445	510	550	98	590	655	560
CLARKS FORK RIVER nr Belfry	MAY-JUL	470	510	540	105	570	610	515
	MAY-SEP	505	555	590	104	625	675	570
COONEY RESERVOIR Inflow (2)	MAY-JUL	26	33	38	100	43	50	38
	MAY-SEP	37	45	51	104	57	65	49
YELLOWSTONE RIVER at Billings (2)	MAY-JUL	2760	3270	3610	111	3950	4460	3250
	MAY-SEP	3250	3850	4260	111	4670	5270	3850

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	0.0	0.0	1.0
COONEY	27.4	20.7	19.2	20.9

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	17	98	117
SHIELDS	4	102	113
BOULDER-STILLWATER	4	116	122
RED LODGE-ROCK CREEK	7	165	139
CLARK'S FORK	7	93	107
UPPER YELLOWSTONE BASIN	35	107	118

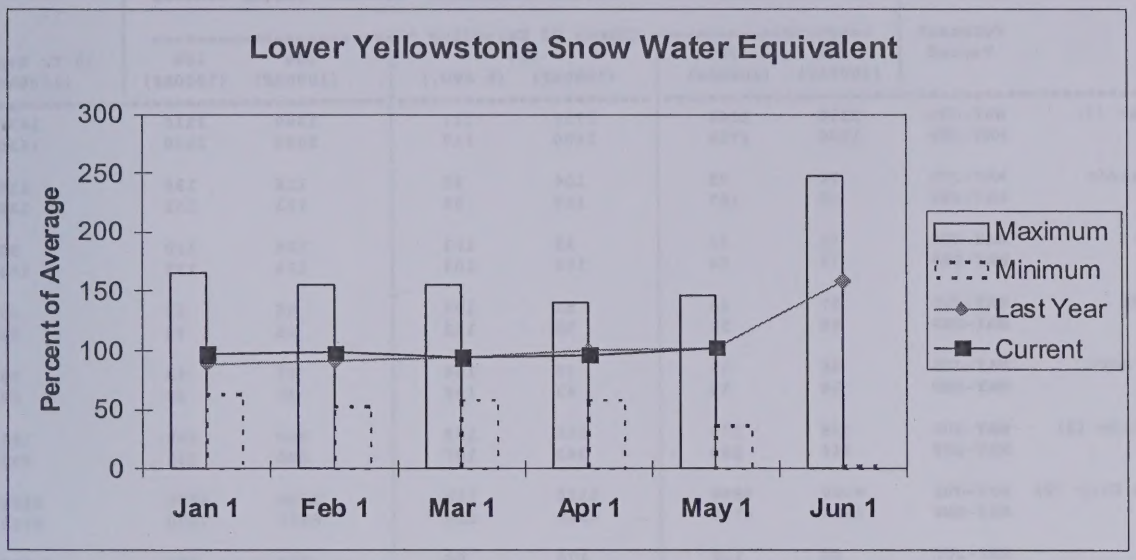
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

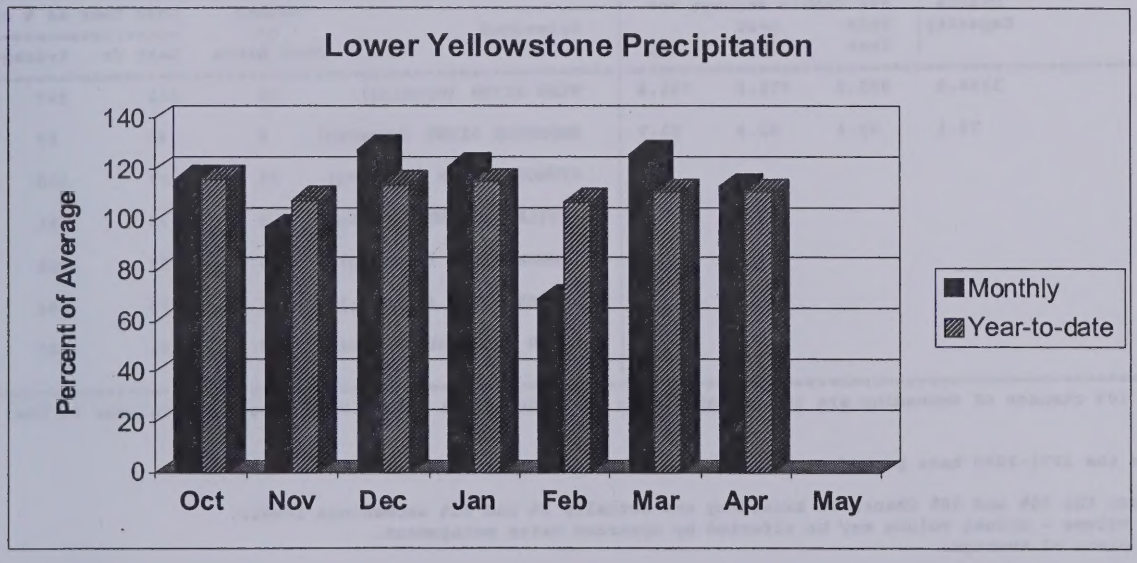
Lower Yellowstone River Basin

Snowpack in the Lower Yellowstone River Basin was near average and increased 6 percent from April 1. Snow water content was 102 percent of average and 101 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 111 percent of average and 247 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2008, was 119 percent of average and 199 percent of last year.



Bighorn Lake storage was 112 percent of average and 114 percent of last year and Tongue River storage was 168 percent of average and 130 percent of last year.

Seasonal volume and snow melt peak flows and dates are discussed in the state-wide summary section.

Surface Water Supply Index (SWSI) was +2.9 in the Bighorn River below Bighorn Lake; +1.2 in the Little Bighorn River; +2.2 in the Yellowstone River below Bighorn River; +2.6 in the Tongue River; and +1.9 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BIGHORN RIVER nr St. Xavier (2)	MAY-JUL	1330	1560	1720	117	1880	2110	1470
	MAY-SEP	1460	1720	1900	117	2080	2340	1630
LITTLE BIGHORN RIVER nr Hardin	MAY-JUL	74	92	104	95	116	134	110
	MAY-SEP	88	107	120	95	133	152	126
TONGUE RIVER nr Dayton (2)	MAY-JUL	66	82	93	103	104	120	90
	MAY-SEP	77	94	106	103	118	135	103
BIG GOOSE CREEK nr Sheridan	MAY-JUL	37	46	51	104	56	65	49
	MAY-SEP	45	53	59	102	65	73	58
LITTLE GOOSE CREEK nr Big Horn	MAY-JUL	26	31	34	106	37	42	32
	MAY-SEP	34	39	43	108	47	52	40
TONGUE RIVER RESERVOIR Inflow (2)	MAY-JUL	125	179	215	108	250	305	199
	MAY-SEP	144	200	240	107	280	335	225
YELLOWSTONE RIVER at Miles City (2)	MAY-JUL	4100	4860	5380	110	5900	6660	4890
	MAY-SEP	4820	5710	6320	110	6930	7820	5740
POWDER RIVER at Moorehead	MAY-JUL	88	139	174	98	210	260	178
	MAY-SEP	108	162	198	99	235	290	200
POWDER RIVER nr Locate	MAY-JUL	82	147	191	98	235	300	195
	MAY-SEP	101	172	220	100	270	340	220
YELLOWSTONE RIVER nr Sidney (2)	MAY-JUL	4140	4920	5440	110	5960	6740	4950
	MAY-SEP	4840	5740	6350	110	6960	7860	5760

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	885.3	779.6	791.9
TONGUE RIVER	79.1	53.3	40.9	31.7

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2009

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	20	111	107
SHOSHONE RIVER (Wyoming)	6	98	97
BIGHORN RIVER (Wyoming)	20	97	100
LITTLE BIGHORN (Wyoming)	3	96	91
TONGUE RIVER (Wyoming)	10	95	101
POWDER RIVER (Wyoming)	9	95	104
LOWER YELLOWSTONE BASIN (	48	101	102

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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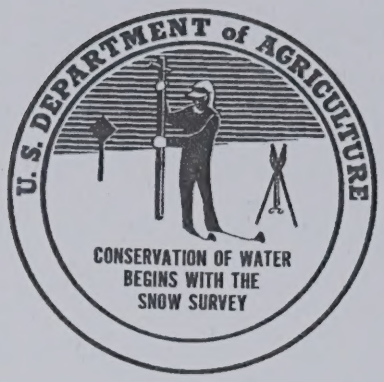

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Montana
Water Supply Outlook Report

Natural Resources Conservation Service
Bozeman, MT